

# Analytical Report for

## ARGO Systems

**Certificate of Analysis No.: 10040906**

**Project Manager:** (b) (4)

**Project Name :** NTCB

**Project Location:** Port Deposit

**Project ID :** 1462309



**April 23, 2010**

**Phase Separation Science, Inc.**

**6630 Baltimore National Pike**

**Baltimore, MD 21228**

**Phone: (410) 747-8770**

**Fax: (410) 788-8723**

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# PHASE SEPARATION SCIENCE, INC.



April 23, 2010

(b) (4)

**ARGO Systems**

1403 Madison Park Dr., Ste. 205  
Glen Burnie, MD 21061

Reference: PSS Work Order No: **10040906**

Project Name : NTCB

Project Location: Port Deposit

Project ID.: 1462309

Dear (b) (4) :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10040906**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on May 14, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or [info@phaseonline.com](mailto:info@phaseonline.com).

(b) (4)

Laboratory Manager



## Case Narrative Summary

Client Name: ARGO Systems

Project Name: NTCB

Project ID: 1462309

Work Order Number: 10040906

The following samples were received under chain of custody by Phase Separation Science (PSS) on 04/09/2010 at 11:15 am

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10040906-001	EB-1	WATER	04/09/2010 08:00
10040906-002	EB-2	WATER	04/09/2010 08:00

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

### Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

### Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10040906

**ARGO Systems, Glen Burnie, MD**

April 23, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

# REVISED

<b>Sample ID: EB-1</b>	<b>Date/Time Sampled: 04/09/2010 08:00</b>	<b>PSS Sample ID: 10040906-001</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 04/09/2010 11:15</b>	

PP Metals

Analytical Method: SW846 6020A

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:11	1034
Arsenic	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:11	1034
Beryllium	ND	ug/L	0.5		1	0.5	04/14/10	04/14/10 18:11	1034
Cadmium	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:11	1034
Chromium	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:11	1034
Copper	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:11	1034
Lead	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:11	1034
Mercury	ND	ug/L	0.2		1	0.1	04/14/10	04/14/10 18:11	1034
Nickel	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:11	1034
Selenium	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:11	1034
Silver	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:11	1034
Thallium	<b>0.6</b>	ug/L	1.0	J	1	0.5	04/14/10	04/14/10 18:11	1034
Zinc	ND	ug/L	20		1	10	04/14/10	04/14/10 18:11	1034

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## CERTIFICATE OF ANALYSIS

No: 10040906

**ARGO Systems, Glen Burnie, MD**

April 23, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

REVISED

<b>Sample ID: EB-1</b>	<b>Date/Time Sampled: 04/09/2010 08:00</b>	<b>PSS Sample ID: 10040906-001</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 04/09/2010 11:15</b>	

Polyaromatic Hydrocarbons (PAHs)

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:13	1014
Acenaphthylene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:13	1014
Anthracene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:13	1014
Benzo(a)anthracene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:13	1014
Benzo(a)pyrene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:13	1014
Benzo(b)fluoranthene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:13	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:13	1014
Benzo(k)fluoranthene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:13	1014
Chrysene	ND	ug/L	2		1	1	04/12/10	04/12/10 14:13	1014
Dibenz(a,h)Anthracene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:13	1014
Fluoranthene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:13	1014
Fluorene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:13	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:13	1014
2-Methylnaphthalene	ND	ug/L	2		1	1	04/12/10	04/12/10 14:13	1014
Naphthalene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:13	1014
Phenanthrene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:13	1014
Pyrene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:13	1014

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## CERTIFICATE OF ANALYSIS

No: 10040906

**ARGO Systems, Glen Burnie, MD**

April 23, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

# REVISED

<b>Sample ID: EB-2</b>	<b>Date/Time Sampled: 04/09/2010 08:00</b>	<b>PSS Sample ID: 10040906-002</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 04/09/2010 11:15</b>	

PP Metals

Analytical Method: SW846 6020A

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:42	1034
Arsenic	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:42	1034
Beryllium	ND	ug/L	0.5		1	0.5	04/14/10	04/14/10 18:42	1034
Cadmium	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:42	1034
Chromium	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:42	1034
Copper	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:42	1034
Lead	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:42	1034
Mercury	ND	ug/L	0.2		1	0.1	04/14/10	04/14/10 18:42	1034
Nickel	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:42	1034
Selenium	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:42	1034
Silver	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:42	1034
Thallium	ND	ug/L	1.0		1	0.5	04/14/10	04/14/10 18:42	1034
Zinc	10	ug/L	20	J	1	10	04/14/10	04/14/10 18:42	1034

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No: 10040906

**ARGO Systems, Glen Burnie, MD**

April 23, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

REVISED

<b>Sample ID: EB-2</b>	<b>Date/Time Sampled: 04/09/2010 08:00</b>	<b>PSS Sample ID: 10040906-002</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 04/09/2010 11:15</b>	

Polyaromatic Hydrocarbons (PAHs)

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:42	1014
Acenaphthylene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:42	1014
Anthracene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:42	1014
Benzo(a)anthracene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:42	1014
Benzo(a)pyrene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:42	1014
Benzo(b)fluoranthene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:42	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:42	1014
Benzo(k)fluoranthene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:42	1014
Chrysene	ND	ug/L	2		1	1	04/12/10	04/12/10 14:42	1014
Dibenz(a,h)Anthracene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:42	1014
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Fluorene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:42	1014
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Naphthalene	ND	ug/L	0.5		1	0.5	04/12/10	04/12/10 14:42	1014
Phenanthrene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:42	1014
Pyrene	ND	ug/L	5		1	2.5	04/12/10	04/12/10 14:42	1014



# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

**www.phaseonline.com**  
**email: info@phaseonline.com**

**PHASE SEPARATION SCIENCE, INC.**

[illegible]

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723  
The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.





# Phase Separation Science, Inc

## Sample Receipt Checklist

Wo Number 10040906

Client Name EA Engineering

Project Name NTCB

Project Number 1462309

Disposal Date: 05/14/2010

Received By (b) (4)

Date Received 04/09/2010 11:15:00 AM

Delivered By Dial Courier

Tracking No Not Applicable

Logged In By (b) (4)

### Shipping Container(s)

No of Coolers 2

Custody Seals Absent

Seal Condition Absent

Ice Present

Temp (deg C) 0

Temp Blank Present No

### Documentation

COC agrees with sample labels? ☒ Yes or ☐ No

Sampler Name: (b) (4)

Chain of Custody (COC) ☒ Yes or ☐ No

MD DW Cert. No.: N/A

### Sample Container

Appropriate for Specified Analysis? Yes ☒ No ☐

Intact? ☒ ☐

Labeled and Labels Legible ☒ ☐

Total No. of Samples Received 2

Custody Seal(s) Absent

Custody Seal(s) Intact? Not Applicable

Seal(s) Signed / Dated Not Applicable

Total No. of Containers Received 4

### Preservation

	Yes	No	N/A
Metals (pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cyanides (pH>12)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sulfide (pH>9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOC, COD, Phenols (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved) (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do VOA vials have zero headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling.

Samples Inspected/Checklist Completed By: (b) (4)

Date: 4/9/10

PM Review and Approval:

Date: 4/9/10

Printed: 04/09/2010 12:33 PM

# Analytical Report for

## ARGO Systems

**Certificate of Analysis No.: 10041620**

**Project Manager:** (b) (4)

**Project Name :** NTCB

**Project Location:** Port Deposit

**Project ID :** 1462309



**April 23, 2010**

**Phase Separation Science, Inc.**

**6630 Baltimore National Pike**

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# PHASE SEPARATION SCIENCE, INC.



April 23, 2010

(b) (4)

**ARGO Systems**

1403 Madison Park Dr., Ste. 205  
Glen Burnie, MD 21061

Reference: PSS Work Order No: **10041620**

Project Name : NTCB

Project Location: Port Deposit

Project ID.: 1462309

Dear (b) (4) :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10041620**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on May 21, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

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We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or [info@phaseonline.com](mailto:info@phaseonline.com).

(b) (4)

Laboratory Manager



## Case Narrative Summary

Client Name: ARGO Systems

Project Name: NTCB

Project ID: 1462309

Work Order Number: 10041620

The following samples were received under chain of custody by Phase Separation Science (PSS) on 04/16/2010 at 03:40 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10041620-001	EB-4	WATER	04/06/2010 08:10
10041620-002	EB-3	WATER	04/06/2010 08:00

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

### Narrative Comments:

Total Metals (waters):

LCS exceeds acceptance criteria (75-125%) for: Se, 71%

MS/MSD exceeds acceptance criteria (75-125%) for: Se, 71%, 70%

PDS exceeds acceptance criteria (75-125%) for: Se, 69%

Opening and Closing CCV's have a Hg recovery of 86%, limits 90-110%

### Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

### Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10041620

**ARGO Systems, Glen Burnie, MD**

April 23, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

<b>Sample ID: EB-4</b>	<b>Date/Time Sampled: 04/06/2010 08:10</b>	<b>PSS Sample ID: 10041620-001</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 04/16/2010 15:40</b>	

PP Metals

Analytical Method: SW846 6020A

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:27	1033
Arsenic	<b>0.5</b>	ug/L	1.0	J	1	0.5	04/22/10	04/22/10 21:27	1033
Beryllium	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:27	1033
Cadmium	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:27	1033
Chromium	<b>0.6</b>	ug/L	1.0	J	1	0.5	04/22/10	04/22/10 21:27	1033
Copper	<b>0.6</b>	ug/L	1.0	J	1	0.5	04/22/10	04/22/10 21:27	1033
Lead	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:27	1033
Mercury	ND	ug/L	0.2		1	0.1	04/22/10	04/22/10 21:27	1033
Nickel	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:27	1033
Selenium	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:27	1033
Silver	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:27	1033
Thallium	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:27	1033
Zinc	ND	ug/L	20		1	10	04/22/10	04/22/10 21:27	1033

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10041620

**ARGO Systems, Glen Burnie, MD**

April 23, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

<b>Sample ID: EB-4</b>	<b>Date/Time Sampled: 04/06/2010 08:10</b>	<b>PSS Sample ID: 10041620-001</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 04/16/2010 15:40</b>	

SVOC PAHs List\_MDE

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	04/19/10	04/19/10 18:34	1014
Acenaphthylene	ND	ug/L	5		1	2.5	04/19/10	04/19/10 18:34	1014
Anthracene	ND	ug/L	5		1	2.5	04/19/10	04/19/10 18:34	1014
Benzo(a)anthracene	ND	ug/L	0.5		1	0.5	04/19/10	04/19/10 18:34	1014
Benzo(a)pyrene	ND	ug/L	0.5		1	0.5	04/19/10	04/19/10 18:34	1014
Benzo(b)fluoranthene	ND	ug/L	0.5		1	0.5	04/19/10	04/19/10 18:34	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	04/19/10	04/19/10 18:34	1014
Benzo(k)fluoranthene	ND	ug/L	0.5		1	0.5	04/19/10	04/19/10 18:34	1014
Chrysene	ND	ug/L	2		1	1	04/19/10	04/19/10 18:34	1014
Dibenz(a,h)Anthracene	ND	ug/L	0.5		1	0.5	04/19/10	04/19/10 18:34	1014
Fluoranthene	ND	ug/L	5		1	2.5	04/19/10	04/19/10 18:34	1014
Fluorene	ND	ug/L	5		1	2.5	04/19/10	04/19/10 18:34	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	0.5		1	0.5	04/19/10	04/19/10 18:34	1014
2-Methylnaphthalene	ND	ug/L	2		1	2	04/19/10	04/19/10 18:34	1014
Naphthalene	ND	ug/L	0.5		1	0.5	04/19/10	04/19/10 18:34	1014
Phenanthrene	ND	ug/L	5		1	2.5	04/19/10	04/19/10 18:34	1014
Pyrene	ND	ug/L	5		1	2.5	04/19/10	04/19/10 18:34	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10041620

**ARGO Systems, Glen Burnie, MD**

April 23, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

<b>Sample ID: EB-3</b>	<b>Date/Time Sampled: 04/06/2010 08:00</b>	<b>PSS Sample ID: 10041620-002</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 04/16/2010 15:40</b>	

PP Metals

Analytical Method: SW846 6020A

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:34	1033
Arsenic	<b>0.5</b>	ug/L	1.0	J	1	0.5	04/22/10	04/22/10 21:34	1033
Beryllium	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:34	1033
Cadmium	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:34	1033
Chromium	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:34	1033
Copper	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:34	1033
Lead	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:34	1033
Mercury	ND	ug/L	0.2		1	0.1	04/22/10	04/22/10 21:34	1033
Nickel	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:34	1033
Selenium	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:34	1033
Silver	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:34	1033
Thallium	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:34	1033
Zinc	<b>10</b>	ug/L	20	J	1	10	04/22/10	04/22/10 21:34	1033



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## CERTIFICATE OF ANALYSIS

No: 10041620

**ARGO Systems, Glen Burnie, MD**

April 23, 2010

Project Name: NTCB

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<b>Sample ID: EB-3</b>	<b>Date/Time Sampled: 04/06/2010 08:00</b>	<b>PSS Sample ID: 10041620-002</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 04/16/2010 15:40</b>	

SVOC PAHs List\_MDE

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	04/19/10	04/19/10 19:04	1014
Acenaphthylene	ND	ug/L	5		1	2.5	04/19/10	04/19/10 19:04	1014
Anthracene	ND	ug/L	5		1	2.5	04/19/10	04/19/10 19:04	1014
Benzo(a)anthracene	ND	ug/L	0.5		1	0.5	04/19/10	04/19/10 19:04	1014
Benzo(a)pyrene	ND	ug/L	0.5		1	0.5	04/19/10	04/19/10 19:04	1014
Benzo(b)fluoranthene	ND	ug/L	0.5		1	0.5	04/19/10	04/19/10 19:04	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	04/19/10	04/19/10 19:04	1014
Benzo(k)fluoranthene	ND	ug/L	0.5		1	0.5	04/19/10	04/19/10 19:04	1014
Chrysene	ND	ug/L	2		1	1	04/19/10	04/19/10 19:04	1014
Dibenz(a,h)Anthracene	ND	ug/L	0.5		1	0.5	04/19/10	04/19/10 19:04	1014
Fluoranthene	ND	ug/L	5		1	2.5	04/19/10	04/19/10 19:04	1014
Fluorene	ND	ug/L	5		1	2.5	04/19/10	04/19/10 19:04	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	0.5		1	0.5	04/19/10	04/19/10 19:04	1014
2-Methylnaphthalene	ND	ug/L	2		1	2	04/19/10	04/19/10 19:04	1014
Naphthalene	ND	ug/L	0.5		1	0.5	04/19/10	04/19/10 19:04	1014
Phenanthrene	ND	ug/L	5		1	2.5	04/19/10	04/19/10 19:04	1014
Pyrene	ND	ug/L	5		1	2.5	04/19/10	04/19/10 19:04	1014



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**email: info@phaseonline.com**

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The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



# Phase Separation Science, Inc

## Sample Receipt Checklist

Wo Number 10041620

Client Name ARGO Systems

Project Name NTCB

Project Number 1462309

Disposal Date: 05/21/2010

Received By (b) (4)

Date Received 04/16/2010 03:40:00 PM

Delivered By Dial Courier

Tracking No Not Applicable

Logged In By (b) (4)

### Shipping Container(s)

No. of Coolers 1

Custody Seals Absent

Seal Condition Absent

Ice Present

Temp (deg C) 0

Temp Blank Present No

### Documentation

COC agrees with sample labels? ☒ Yes or ☐ No

Sampler Name: (b) (4)

Chain of Custody (COC) ☒ Yes or ☐ No

MD DW Cert No: N/A

### Sample Container

Appropriate for Specified Analysis? Yes ☒ No ☐

Intact? ☒ ☐

Labeled and Labels Legible ☒ ☐

Total No. of Samples Received 2

Custody Seal(s) Absent

Custody Seal(s) Intact? Not Applicable

Seal(s) Signed / Dated Not Applicable

Total No. of Containers Received 4

### Preservation

Metals

(pH<2)

Yes

No

N/A

Cyanides

(pH>12)

Sulfide

(pH>9)

TOC, COD, Phenols

(pH<2)

TOX, TKN, NH3, Total Phos

(pH<2)

VOC, BTEX (VOA Vials Rcvd Preserved)

(pH<2)

Do VOA vials have zero headspace?

	Yes	No	N/A
Metals (pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cyanides (pH>12)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sulfide (pH>9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOC, COD, Phenols (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved) (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do VOA vials have zero headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling.

Samples Inspected/Checklist Completed By: (b) (4)

Date:

PM Review and Approval:

Date:

Printed: 04/16/2010 05:11 PM

# Analytical Report for

## ARGO Systems

**Certificate of Analysis No.: 10042106**

**Project Manager:** (b) (4)

**Project Name :** NTCB

**Project Location:** Port Deposit

**Project ID :** 1462309



**April 28, 2010**

**Phase Separation Science, Inc.**

**6630 Baltimore National Pike**

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# PHASE SEPARATION SCIENCE, INC.



April 28, 2010

(b) (4)

**ARGO Systems**

1403 Madison Park Dr., Ste. 205  
Glen Burnie, MD 21061

Reference: PSS Work Order No: **10042106**

Project Name : NTCB

Project Location: Port Deposit

Project ID.: 1462309

Dear (b) (4) :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10042106**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on May 26, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or [info@phaseonline.com](mailto:info@phaseonline.com).

(b) (4)

Laboratory Manager



## Case Narrative Summary

Client Name: ARGO Systems

Project Name: NTCB

Project ID: 1462309

Work Order Number: 10042106

The following samples were received under chain of custody by Phase Separation Science (PSS) on 04/21/2010 at 11:30 am

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10042106-001	EB-5	WATER	04/20/2010 14:00
10042106-002	EB-6	WATER	04/20/2010 14:30

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

### Narrative Comments:

Total Metals (waters):

LCS exceeds acceptance criteria (75-125%) for: Se, 71%

MS/MSD exceeds acceptance criteria (75-125%) for: Se, 71%, 70%

PDS exceeds acceptance criteria (75-125%) for: Se, 69%

Opening and Closing CCV's have a Hg recovery of 86%, limits 90-110%

### Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

### Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10042106

**ARGO Systems, Glen Burnie, MD**

April 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

<b>Sample ID: EB-5</b>	<b>Date/Time Sampled: 04/20/2010 14:00</b>	<b>PSS Sample ID: 10042106-001</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 04/21/2010 11:30</b>	

PP MDE Metals

Analytical Method: SW846 6020A

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 20:43	1033
Arsenic	<b>0.6</b>	ug/L	1.0	J	1	0.5	04/22/10	04/22/10 20:43	1033
Beryllium	ND	ug/L	0.5		1	0.5	04/22/10	04/22/10 20:43	1033
Cadmium	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 20:43	1033
Chromium	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 20:43	1033
Copper	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 20:43	1033
Lead	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 20:43	1033
Mercury	ND	ug/L	0.2		1	0.05	04/22/10	04/22/10 20:43	1033
Nickel	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 20:43	1033
Selenium	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 20:43	1033
Silver	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 20:43	1033
Thallium	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 20:43	1033
Zinc	<b>10</b>	ug/L	20	J	1	10	04/22/10	04/22/10 20:43	1033



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# PHASE SEPARATION SCIENCE, INC.



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No: 10042106

**ARGO Systems, Glen Burnie, MD**

April 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

<b>Sample ID: EB-5</b>	<b>Date/Time Sampled: 04/20/2010 14:00</b>	<b>PSS Sample ID: 10042106-001</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 04/21/2010 11:30</b>	

SVOC PAHs List\_MDE

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	04/22/10	04/25/10 23:03	1014
Acenaphthylene	ND	ug/L	5		1	2.5	04/22/10	04/25/10 23:03	1014
Anthracene	ND	ug/L	5		1	2.5	04/22/10	04/25/10 23:03	1014
Benzo(a)anthracene	ND	ug/L	0.5		1	0.5	04/22/10	04/25/10 23:03	1014
Benzo(a)pyrene	ND	ug/L	0.5		1	0.5	04/22/10	04/25/10 23:03	1014
Benzo(b)fluoranthene	ND	ug/L	0.5		1	0.5	04/22/10	04/25/10 23:03	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	04/22/10	04/25/10 23:03	1014
Benzo(k)fluoranthene	ND	ug/L	0.5		1	0.5	04/22/10	04/25/10 23:03	1014
Chrysene	ND	ug/L	2		1	1	04/22/10	04/25/10 23:03	1014
Dibenz(a,h)Anthracene	ND	ug/L	0.5		1	0.5	04/22/10	04/25/10 23:03	1014
Fluoranthene	ND	ug/L	5		1	2.5	04/22/10	04/25/10 23:03	1014
Fluorene	ND	ug/L	5		1	2.5	04/22/10	04/25/10 23:03	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	0.5		1	0.5	04/22/10	04/25/10 23:03	1014
2-Methylnaphthalene	ND	ug/L	2		1	2	04/22/10	04/25/10 23:03	1014
Naphthalene	ND	ug/L	0.5		1	0.5	04/22/10	04/25/10 23:03	1014
Phenanthrene	ND	ug/L	5		1	2.5	04/22/10	04/25/10 23:03	1014
Pyrene	ND	ug/L	5		1	2.5	04/22/10	04/25/10 23:03	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10042106

**ARGO Systems, Glen Burnie, MD**

April 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

<b>Sample ID: EB-6</b>	<b>Date/Time Sampled: 04/20/2010 14:30</b>	<b>PSS Sample ID: 10042106-002</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 04/21/2010 11:30</b>	

PP MDE Metals

Analytical Method: SW846 6020A

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:15	1033
Arsenic	<b>0.6</b>	ug/L	1.0	J	1	0.5	04/22/10	04/22/10 21:15	1033
Beryllium	ND	ug/L	0.5		1	0.5	04/22/10	04/22/10 21:15	1033
Cadmium	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:15	1033
Chromium	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:15	1033
Copper	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:15	1033
Lead	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:15	1033
Mercury	ND	ug/L	0.2		1	0.05	04/22/10	04/22/10 21:15	1033
Nickel	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:15	1033
Selenium	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:15	1033
Silver	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:15	1033
Thallium	ND	ug/L	1.0		1	0.5	04/22/10	04/22/10 21:15	1033
Zinc	<b>13</b>	ug/L	20	J	1	10	04/22/10	04/22/10 21:15	1033

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10042106

**ARGO Systems, Glen Burnie, MD**

April 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

<b>Sample ID: EB-6</b>	<b>Date/Time Sampled: 04/20/2010 14:30</b>	<b>PSS Sample ID: 10042106-002</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 04/21/2010 11:30</b>	

SVOC PAHs List\_MDE

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	04/22/10	04/25/10 23:34	1014
Acenaphthylene	ND	ug/L	5		1	2.5	04/22/10	04/25/10 23:34	1014
Anthracene	ND	ug/L	5		1	2.5	04/22/10	04/25/10 23:34	1014
Benzo(a)anthracene	ND	ug/L	0.5		1	0.5	04/22/10	04/25/10 23:34	1014
Benzo(a)pyrene	ND	ug/L	0.5		1	0.5	04/22/10	04/25/10 23:34	1014
Benzo(b)fluoranthene	ND	ug/L	0.5		1	0.5	04/22/10	04/25/10 23:34	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	04/22/10	04/25/10 23:34	1014
Benzo(k)fluoranthene	ND	ug/L	0.5		1	0.5	04/22/10	04/25/10 23:34	1014
Chrysene	ND	ug/L	2		1	1	04/22/10	04/25/10 23:34	1014
Dibenz(a,h)Anthracene	ND	ug/L	0.5		1	0.5	04/22/10	04/25/10 23:34	1014
Fluoranthene	ND	ug/L	5		1	2.5	04/22/10	04/25/10 23:34	1014
Fluorene	ND	ug/L	5		1	2.5	04/22/10	04/25/10 23:34	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	0.5		1	0.5	04/22/10	04/25/10 23:34	1014
2-Methylnaphthalene	ND	ug/L	2		1	2	04/22/10	04/25/10 23:34	1014
Naphthalene	ND	ug/L	0.5		1	0.5	04/22/10	04/25/10 23:34	1014
Phenanthrene	ND	ug/L	5		1	2.5	04/22/10	04/25/10 23:34	1014
Pyrene	ND	ug/L	5		1	2.5	04/22/10	04/25/10 23:34	1014



# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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email: info@phaseonline.com

## PHASE SEPARATION SCIENCE, INC.

1		CLIENT: EPA	OFFICE LOC: Sparks, MD	PSS Work Order #: 100421060	PAGE 3 OF 3	
2		PROJECT MGR: [REDACTED]	PHONE NO.: (410) 329-5114	Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe		
3		EMAIL: [REDACTED]	FAX NO.: (410) 771-4204	Preservatives Used: [REDACTED]		
4		PROJECT NAME: NTCB	PROJECT NO.: 1462389	Analysis/Method Required: [REDACTED]		
5		SITE LOCATION: Port Deposit	P.O. NO.: [REDACTED]	C = COMP G = GRAB		
6		SAMPLERS: [REDACTED]	CONTAINERS			
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	REMARKS	
1	EB-5	4/20/10	1400	W	X	
2	EB-6	4/20/10	1430	W	X	
Requested Turnaround Time: <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input checked="" type="checkbox"/> Other Data Deliverables Required: Ice Present: [REDACTED] Temp: 10 Shipping Carrier: DIAL						
Special Instructions:						
Received By: [REDACTED] (b) (4)						
Received By: [REDACTED] (b) (4)						
Received By: [REDACTED]						
Received By: [REDACTED]						

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723  
The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



## Phase Separation Science, Inc

### Sample Receipt Checklist

Wo Number	10042106	Received By	(b) (4)
Client Name	ARGO Systems	Date Received	04/21/2010 11:30:00 AM
Project Name	NTCB	Delivered By	Dial Courier
Project Number	1462309	Tracking No	Not Applicable
Disposal Date:	05/26/2010	Logged In By	(b) (4)

#### Shipping Container(s)

No. of Coolers	1	Ice	Present
Custody Seals	Absent	Temp (deg C)	1
Seal Condition	Absent	Temp Blank Present	No

#### Documentation

COC agrees with sample labels? ☒ Yes or ☐ No      Sampler Name: (b) (4)  
Chain of Custody (COC) ☒ Yes or ☐ No      MD DW Cert No: N/A

#### Sample Container

Appropriate for Specified Analysis?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Custody Seal(s)	Absent
Intact?	<input checked="" type="checkbox"/> <input type="checkbox"/>	Custody Seal(s) Intact?	Not Applicable
Labeled and Labels Legible	<input checked="" type="checkbox"/> <input type="checkbox"/>	Seal(s) Signed / Dated	Not Applicable
Total No. of Samples Received	2	Total No. of Containers Received	4

#### Preservation

	Yes	No	N/A
Metals (pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cyanides (pH>12)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sulfide (pH>9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOC, COD, Phenols (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved) (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do VOA vials have zero headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

#### Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling

Samples Inspected/Checklist Completed By: (b) (4)

Date:

4/21/10

PM Review and Approval:

Date:

4/22/11

Printed: 04/21/2010 11:46 AM

# Analytical Report for

## ARGO Systems

**Certificate of Analysis No.: 10051020**

**Project Manager:** (b) (4)

**Project Name :** NTCB

**Project Location:** Port Deposit

**Project ID :** 1462309



**May 17, 2010**

**Phase Separation Science, Inc.**

**6630 Baltimore National Pike**

**Baltimore, MD 21228**

**Phone: (410) 747-8770**

**Fax: (410) 788-8723**



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# PHASE SEPARATION SCIENCE, INC.



May 17, 2010

(b) (4)

**ARGO Systems**

1403 Madison Park Dr., Ste. 205  
Glen Burnie, MD 21061

Reference: PSS Work Order No: **10051020**

Project Name : NTCB

Project Location: Port Deposit

Project ID.: 1462309

Dear (b) (4) :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10051020**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on June 14, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or [info@phaseonline.com](mailto:info@phaseonline.com).

(b) (4)

Laboratory Manager





## Case Narrative Summary

Client Name: ARGO Systems

Project Name: NTCB

Project ID: 1462309

Work Order Number: 10051020

The following samples were received under chain of custody by Phase Separation Science (PSS) on 05/10/2010 at 02:45 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10051020-001	R-78 / 2-4	SOIL	05/07/2010 09:35
10051020-002	NR-24 / 2-4	SOIL	05/07/2010 08:00
10051020-003	R-147 / 2-4	SOIL	05/07/2010 11:00
10051020-004	NR-18 / 2-4	SOIL	05/07/2010 08:20
10051020-005	R-58 / 2-4	SOIL	05/07/2010 09:05
10051020-006	1A-54 / 2-4	SOIL	05/07/2010 08:55
10051020-007	1A-25 / 2-4	SOIL	05/07/2010 07:45
10051020-008	1A-52 / 2-4	SOIL	05/07/2010 08:15
10051020-009	1A-57 / 2-4	SOIL	05/07/2010 11:00
10051020-010	1A-42 / 2-4	SOIL	05/07/2010 09:15
10051020-011	1A-46 / 2-4	SOIL	05/07/2010 10:30
10051020-012	1A-53 / 2-4	SOIL	05/07/2010 08:35
10051020-013	1A-29 / 2-4	SOIL	05/07/2010 10:15
10051020-015	1A-41 / 2-4	SOIL	05/07/2010 09:35
10051020-016	1A-43 / 2-4	SOIL	05/07/2010 09:55
10051020-017	1A-11 / 2-4	SOIL	05/07/2010 13:55
10051020-018	1A-37 / 2-4	SOIL	05/07/2010 14:30
10051020-019	R-67 / 2-4	SOIL	05/07/2010 13:30
10051020-020	1A-50 / 2-4	SOIL	05/07/2010 14:10
10051020-021	1A-71 / 2-4	SOIL	05/07/2010 12:40
10051020-022	1A-58 / 2-4	SOIL	05/07/2010 13:00
10051020-023	1A-30 / 2-4	SOIL	05/07/2010 13:20
10051020-024	1A-44 / 2-4	SOIL	05/07/2010 13:40
10051020-025	1A-31 / 2-4	SOIL	05/07/2010 14:00
10051020-026	1A-18 / 2-4 MS/MSD	SOIL	05/07/2010 13:50
10051020-027	1A-15 / 2-4	SOIL	05/07/2010 14:20
10051020-028	1A-39 / 2-4	SOIL	05/07/2010 14:40
10051020-029	DUP-05 / 2-4	SOIL	05/07/2010 00:00
10051020-030	DUP-06 / 2-4	SOIL	05/07/2010 00:00
10051020-031	EB-7	WATER	05/07/2010 00:00
10051020-032	EB-8	WATER	05/07/2010 00:00
10051020-033	1A-34 / 2-4	SOIL	05/10/2010 08:35
10051020-034	1A-49 / 2-4	SOIL	05/10/2010 08:05
10051020-035	1A-36 / 2-4	SOIL	05/10/2010 08:15
10051020-036	1A-33 / 2-4	SOIL	05/10/2010 08:50
10051020-037	DUP-07 / 2-4	SOIL	05/10/2010 00:00

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.



# Case Narrative Summary

Client Name: ARGO Systems

Project Name: NTCB

Project ID: 1462309

Work Order Number: 10051020

## Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

## Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10051020

**ARGO Systems, Glen Burnie, MD**

May 17, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

<b>Sample ID: EB-7</b>	<b>Date/Time Sampled: 05/07/2010 00:00</b>	<b>PSS Sample ID: 10051020-031</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 05/10/2010 14:45</b>	

PP MDE Metals

Analytical Method: SW846 6020A

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	05/12/10	05/12/10 15:43	1033
Arsenic	ND	ug/L	1.0		1	0.5	05/12/10	05/12/10 15:43	1033
Beryllium	ND	ug/L	0.5		1	0.5	05/12/10	05/12/10 15:43	1033
Cadmium	ND	ug/L	1.0		1	0.5	05/12/10	05/12/10 15:43	1033
Chromium	<b>0.6</b>	ug/L	1.0	J	1	0.5	05/12/10	05/12/10 15:43	1033
Copper	<b>0.6</b>	ug/L	1.0	J	1	0.5	05/12/10	05/12/10 15:43	1033
Lead	ND	ug/L	1.0		1	0.5	05/12/10	05/12/10 15:43	1033
Mercury	ND	ug/L	0.20		1	0.1	05/12/10	05/12/10 15:43	1033
Nickel	ND	ug/L	1.0		1	0.5	05/12/10	05/12/10 15:43	1033
Selenium	ND	ug/L	1.0		1	0.5	05/12/10	05/12/10 15:43	1033
Silver	ND	ug/L	1.0		1	0.5	05/12/10	05/12/10 15:43	1033
Thallium	ND	ug/L	1.0		1	0.5	05/12/10	05/12/10 15:43	1033
Zinc	<b>13</b>	ug/L	20	J	1	10	05/12/10	05/12/10 15:43	1033

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10051020

**ARGO Systems, Glen Burnie, MD**

May 17, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

<b>Sample ID: EB-7</b>	<b>Date/Time Sampled: 05/07/2010 00:00</b>	<b>PSS Sample ID: 10051020-031</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 05/10/2010 14:45</b>	

SVOC PAHs List\_MDE

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	05/13/10	05/13/10 13:53	1014
Acenaphthylene	ND	ug/L	5		1	2.5	05/13/10	05/13/10 13:53	1014
Anthracene	ND	ug/L	5		1	2.5	05/13/10	05/13/10 13:53	1014
Benzo(a)anthracene	ND	ug/L	0.5		1	0.5	05/13/10	05/13/10 13:53	1014
Benzo(a)pyrene	ND	ug/L	0.5		1	0.5	05/13/10	05/13/10 13:53	1014
Benzo(b)fluoranthene	ND	ug/L	0.5		1	0.5	05/13/10	05/13/10 13:53	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	05/13/10	05/13/10 13:53	1014
Benzo(k)fluoranthene	ND	ug/L	0.5		1	0.5	05/13/10	05/13/10 13:53	1014
Chrysene	ND	ug/L	2		1	1	05/13/10	05/13/10 13:53	1014
Dibenz(a,h)Anthracene	ND	ug/L	0.5		1	0.5	05/13/10	05/13/10 13:53	1014
Fluoranthene	ND	ug/L	5		1	2.5	05/13/10	05/13/10 13:53	1014
Fluorene	ND	ug/L	5		1	2.5	05/13/10	05/13/10 13:53	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	0.5		1	0.5	05/13/10	05/13/10 13:53	1014
2-Methylnaphthalene	ND	ug/L	2		1	2	05/13/10	05/13/10 13:53	1014
Naphthalene	ND	ug/L	0.5		1	0.5	05/13/10	05/13/10 13:53	1014
Phenanthrene	ND	ug/L	5		1	2.5	05/13/10	05/13/10 13:53	1014
Pyrene	ND	ug/L	5		1	2.5	05/13/10	05/13/10 13:53	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10051020

**ARGO Systems, Glen Burnie, MD**

May 17, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

<b>Sample ID: EB-8</b>	<b>Date/Time Sampled: 05/07/2010 00:00</b>	<b>PSS Sample ID: 10051020-032</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 05/10/2010 14:45</b>	

PP MDE Metals

Analytical Method: SW846 6020A

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	05/12/10	05/12/10 15:49	1033
Arsenic	ND	ug/L	1.0		1	0.5	05/12/10	05/12/10 15:49	1033
Beryllium	ND	ug/L	0.5		1	0.5	05/12/10	05/12/10 15:49	1033
Cadmium	ND	ug/L	1.0		1	0.5	05/12/10	05/12/10 15:49	1033
Chromium	ND	ug/L	1.0		1	0.5	05/12/10	05/12/10 15:49	1033
Copper	<b>0.7</b>	ug/L	1.0	J	1	0.5	05/12/10	05/12/10 15:49	1033
Lead	ND	ug/L	1.0		1	0.5	05/12/10	05/12/10 15:49	1033
Mercury	ND	ug/L	0.20		1	0.1	05/12/10	05/12/10 15:49	1033
Nickel	ND	ug/L	1.0		1	0.5	05/12/10	05/12/10 15:49	1033
Selenium	ND	ug/L	1.0		1	0.5	05/12/10	05/12/10 15:49	1033
Silver	ND	ug/L	1.0		1	0.5	05/12/10	05/12/10 15:49	1033
Thallium	ND	ug/L	1.0		1	0.5	05/12/10	05/12/10 15:49	1033
Zinc	<b>13</b>	ug/L	20	J	1	10	05/12/10	05/12/10 15:49	1033

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10051020

**ARGO Systems, Glen Burnie, MD**

May 17, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

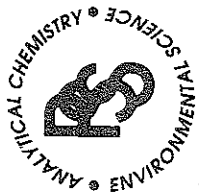
<b>Sample ID: EB-8</b>	<b>Date/Time Sampled: 05/07/2010 00:00</b>	<b>PSS Sample ID: 10051020-032</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 05/10/2010 14:45</b>	

SVOC PAHs List\_MDE

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	05/13/10	05/13/10 14:23	1014
Acenaphthylene	ND	ug/L	5		1	2.5	05/13/10	05/13/10 14:23	1014
Anthracene	ND	ug/L	5		1	2.5	05/13/10	05/13/10 14:23	1014
Benzo(a)anthracene	ND	ug/L	0.5		1	0.5	05/13/10	05/13/10 14:23	1014
Benzo(a)pyrene	ND	ug/L	0.5		1	0.5	05/13/10	05/13/10 14:23	1014
Benzo(b)fluoranthene	ND	ug/L	0.5		1	0.5	05/13/10	05/13/10 14:23	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	05/13/10	05/13/10 14:23	1014
Benzo(k)fluoranthene	ND	ug/L	0.5		1	0.5	05/13/10	05/13/10 14:23	1014
Chrysene	ND	ug/L	2		1	1	05/13/10	05/13/10 14:23	1014
Dibenz(a,h)Anthracene	ND	ug/L	0.5		1	0.5	05/13/10	05/13/10 14:23	1014
Fluoranthene	ND	ug/L	5		1	2.5	05/13/10	05/13/10 14:23	1014
Fluorene	ND	ug/L	5		1	2.5	05/13/10	05/13/10 14:23	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	0.5		1	0.5	05/13/10	05/13/10 14:23	1014
2-Methylnaphthalene	ND	ug/L	2		1	2	05/13/10	05/13/10 14:23	1014
Naphthalene	ND	ug/L	0.5		1	0.5	05/13/10	05/13/10 14:23	1014
Phenanthrene	ND	ug/L	5		1	2.5	05/13/10	05/13/10 14:23	1014
Pyrene	ND	ug/L	5		1	2.5	05/13/10	05/13/10 14:23	1014



# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

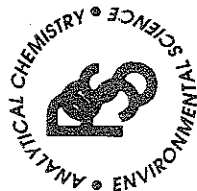
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email: info@phaseonline.com

## PHASE SEPARATION SCIENCE, INC.

1 CLIENT: <b>EPA</b>		OFFICE LOC. <b>Sparks, MD</b>		PSS Work Order # <b>10051020</b>		PAGE <b>1</b> OF <b>4</b>	
PROJECT MGR <b>[REDACTED]</b>		PHONE NO.: <b>(410) 329-5114</b>		Matrix Codes: SW-Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe			
EMAIL <b>[REDACTED]</b>		FAX NO.: <b>(410) 771-4904</b>		Preservatives Used: <b>[REDACTED]</b>			
PROJECT NAME: <b>NTCB</b>		PROJECT NO.: <b>140230</b>		Analysis/Method Required: <b>③</b>			
SITE LOCATION: <b>Port Deposit</b>		P.O. NO.: <b>[REDACTED]</b>		SAMPLE TYPE: <b>C = COMP G = GRAB</b>			
SAMPLERS: <b>[REDACTED]</b>		DATE: <b>5/7/10</b>		TIME: <b>0935</b>		MATRIX (See Codes): <b>S</b>	
LAB NO. <b>1</b>		SAMPLE IDENTIFICATION: <b>R-78/2-4</b>		DATE: <b>5/7/10</b>		TIME: <b>0935</b>	
LAB NO. <b>2</b>		SAMPLE IDENTIFICATION: <b>NR-24/2-4</b>		DATE: <b>5/7/10</b>		TIME: <b>0900</b>	
LAB NO. <b>3</b>		SAMPLE IDENTIFICATION: <b>R-147/2-4</b>		DATE: <b>5/7/10</b>		TIME: <b>1100</b>	
LAB NO. <b>4</b>		SAMPLE IDENTIFICATION: <b>NR-18/2-4</b>		DATE: <b>5/7/10</b>		TIME: <b>0820</b>	
LAB NO. <b>5</b>		SAMPLE IDENTIFICATION: <b>R-58/2-4</b>		DATE: <b>5/7/10</b>		TIME: <b>0905</b>	
LAB NO. <b>6</b>		SAMPLE IDENTIFICATION: <b>IA-54/2-4</b>		DATE: <b>5/7/10</b>		TIME: <b>0855</b>	
LAB NO. <b>7</b>		SAMPLE IDENTIFICATION: <b>IA-25/2-4</b>		DATE: <b>5/7/10</b>		TIME: <b>0745</b>	
LAB NO. <b>8</b>		SAMPLE IDENTIFICATION: <b>IA-52/2-4</b>		DATE: <b>5/7/10</b>		TIME: <b>0815</b>	
LAB NO. <b>9</b>		SAMPLE IDENTIFICATION: <b>IA-57/2-4</b>		DATE: <b>5/7/10</b>		TIME: <b>1100</b>	
LAB NO. <b>10</b>		SAMPLE IDENTIFICATION: <b>IA-42/2-4</b>		DATE: <b>5/7/10</b>		TIME: <b>0915</b>	
Relinquished By: (1) <b>[REDACTED]</b>		Date: <b>5/10/10</b>		Time: <b>1255</b>		Requested Turnaround Time: <b>5-Day</b>	
Relinquished By: (2) <b>[REDACTED]</b>		Date: <b>5/10/10</b>		Time: <b>1445</b>		Requested Turnaround Time: <b>3-Day</b>	
Relinquished By: (3) <b>[REDACTED]</b>		Date: <b>5/10/10</b>		Time: <b>1445</b>		Requested Turnaround Time: <b>Emergency</b>	
Relinquished By: (4) <b>[REDACTED]</b>		Date: <b>5/10/10</b>		Time: <b>1445</b>		Requested Turnaround Time: <b>Other</b>	
Custody Seal: <b>ABS</b>		Ice Present: <b>YES</b>		Temp: <b>02</b>		Shipping Carrier: <b>DIAL</b>	
Special Instructions:							

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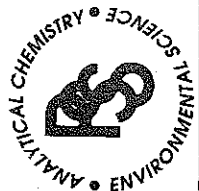
# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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## PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EPA		OFFICE LOC. Sparks, MD		PSS Work Order #: 10051020		PAGE 2 OF 4	
PROJECT MGR: [REDACTED]		PHONE NO.: (410) 329-5114		Matrix Codes: SW-Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe			
EMAIL: [REDACTED]		FAX NO.: (410) 771-4904		Preservatives Used: [REDACTED]			
PROJECT NAME: NTCB		PROJECT NO.: 1467309		Analysis/Method Required: ③			
SITE LOCATION: Port Deposit		P.O. NO.: [REDACTED]		SAMPLE TYPE: C = COMP G = GRAB			
SAMPLERS: [REDACTED]		[REDACTED]		CONTAINERS			
2		3		4		5	
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	REMARKS		
11	1A-40/2-4	5/7/10	1030	S	X		
12	1A-53/2-4		0835				
13	1A-29/2-4		1015				
14	1A-57/2-4		1100				
15	1A-41/2-4		0935				
16	1A-43/2-4		0955				
17	1A-11/2-4		1355				
18	1A-37/2-4		1430				
19	R-67/2-4		1330				
20	1A-50/2-4		1410				
Relinquished By: (1)		Date	Time	Requested Turnaround Time		# of Coolers: 2	
[REDACTED]		5/10/10	1235	<input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Other		Custody Seal: ABS	
Relinquished By: (2)		Date	Time	Data Deliverables Required:		Ice Present: PLES Temp: 0°C	
[REDACTED]		5/10/10	1445			Shipping Carrier: DIAL	
Relinquished By: (3)		Date	Time	Special Instructions:			
[REDACTED]							
Relinquished By: (4)		Date	Time				
[REDACTED]							

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# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EPA		OFFICE LOC. Sparks, MD		PSS Work Order # 10051020		PAGE 3 OF 4	
PROJECT MG (b) (4)		PHONE NO.: 410 324-5114		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe			
EMAIL: (b) (4)		PROJECT NO.: 1463309		PRESERVATIVES USED: (b) (4)			
PROJECT NAME: MTCB		P.O. NO.:		SAMPLE TYPE: C= COMP G= GRAB			
SITE LOCATION: Port Deposit		DATE: 5/7/10		TIME: 1240		REMARKS: PHHS	
SAMPLERS: (b) (4)		DATE: 5/7/10		TIME: 1300			
LAB NO.		SAMPLE IDENTIFICATION		DATE		TIME	
21	1A-71/2-4	5/7/10		1240		S	
22	1A-58/2-4	5/7/10		1300			
23	1A-80/2-4	5/7/10		1320			
24	1A-44/2-4	5/7/10		1340			
25	1A-31/2-4	5/7/10		1400			
26	1A-18/2-4 MS/MSD	5/7/10		1350			
27	1A-15/2-4	5/7/10		1420			
28	1A-39/2-4	5/7/10		1440			
29	DUP-05/2-4	5/7/10		---			
30	DUP-06/2-4	5/7/10		---			
5 Relinquished By: (1) (b) (4)		Date: 5/10/10		Time: 1255			
Relinquished By: (2) (b) (4)		Date: 5-10-10		Time: 1445			
Relinquished By: (3)		Date:		Time:			
Relinquished By: (4)		Date:		Time:			
Requested Turnaround Time: 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input checked="" type="checkbox"/> Other <input type="checkbox"/>		Requested Turnaround Time: 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input checked="" type="checkbox"/> Other <input type="checkbox"/>		# of Coolers: 2		Custody Seal: ABS	
Data Deliverables Required:		Data Deliverables Required:		Ice Present: PHHS		Temp: 0°C	
Shipping Carrier: DIAL		Shipping Carrier: DIAL		Special Instructions:			

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# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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## PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EPA		OFFICE LOC. Sparks MD		IPSS Work Order: 1005020		PAGE 4 OF 4											
PROJECT MGR: (b)(6)		PHONE NO.: 410-324-5114		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe													
EMAIL: (b)(6)		FAX NO.: 410-771-4950		Preservatives Used													
PROJECT NAME: NTCB		PROJECT NO.: 142309		Analysis/Method Required (3)													
SITE LOCATION: POLY Deposit		P.O. NO.:		SAMPLE TYPE C = COMP G = GRAB													
SAMPLERS: (b)(6)				CONTAINERS													
2		3		4													
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	No.	C	O	N	T	A	I	N	E	R	S	REMARKS	
31	EB-7	5/7/10	—	—	2	G											
32	EB-8	5/7/10	—	—	2	G											
33	1A-34/2-4	5/10/10	0835	S	1	G											
34	1A-49/2-4	—	0805	S	1	G											
35	1A-36/2-4	—	0815	S	1	G											
36	1A-33/2-4	—	0850	S	1	G											
37	DUP-07/2-4	—	—	S	1	G											
5		6		7		8		9		10		11		12		13	
Relinquished By: (1)	Date	Time	Received By: (1)	Date	Time	Received By: (2)	Date	Time	Received By: (3)	Date	Time	Received By: (4)	Date	Time	Received By: (5)	Date	Time
(b)(6)	5/10/10	1255	(b)(6)	5/10/10	1445	(b)(6)	5/10/10	1445	(b)(6)	5/10/10	1445	(b)(6)	5/10/10	1445	(b)(6)	5/10/10	1445
Requested Turnaround Time		5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input checked="" type="checkbox"/> Other <input type="checkbox"/>		# of Coolers: 2		Custody Seal: ABS		Ice Present: YES		Temp: 0°C		Shipping Carrier: DIAL		Special Instructions:			

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# Phase Separation Science, Inc

## Sample Receipt Checklist

Wo Number 10051020

Client Name ARGO Systems

Project Name NTCB

Project Number 1462309

Disposal Date: 06/14/2010

Received By (b) (4)

Date Received 05/10/2010 02:45:00 PM

Delivered By Dial Courier

Tracking No Not Applicable

Logged In By (b) (4)

### Shipping Container(s)

No. of Coolers 2

Custody Seals Absent

Seal Condition Absent

Ice Present

Temp (deg C) 0

Temp Blank Present No

### Documentation

COC agrees with sample labels? ☒ Yes or ☐ No

Sampler Name: (b) (4)

Chain of Custody (COC) ☒ Yes or ☐ No

MD DW Cert. No : N/A

### Sample Container

Appropriate for Specified Analysis? Yes ☒ No ☐

Intact? ☒

Labeled and Labels Legible ☒

Total No. of Samples Received 37

Custody Seal(s) Absent

Custody Seal(s) Intact? Not Applicable

Seal(s) Signed / Dated Not Applicable

Total No. of Containers Received 41

### Preservation

	Yes	No	N/A
Metals (pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cyanides (pH>12)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sulfide (pH>9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOC, COD, Phenols (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved) (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do VOA vials have zero headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling

\*Sample ID 1A-57 / 2-4 marked on two separate COCs Per client, place one on hold. -rd 5/10/10

Samples Inspected/Checklist Completed By: (b) (4)

Date: 5/10/10

PM Review and Approval: (b) (4)

Date: 5/11/10

Printed: 05/10/2010 05:12 PM

# Analytical Report for

## ARGO Systems

**Certificate of Analysis No.: 10051707**

**Project Manager:** (b) (4)

**Project Name :** NTCB

**Project Location:** Port Deposit

**Project ID :** 1462309



**May 24, 2010**

**Phase Separation Science, Inc.**

**6630 Baltimore National Pike**

**Baltimore, MD 21228**

**Phone: (410) 747-8770**

**Fax: (410) 788-8723**



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# PHASE SEPARATION SCIENCE, INC.



May 24, 2010

(b) (4)

**ARGO Systems**

1403 Madison Park Dr., Ste. 205  
Glen Burnie, MD 21061

Reference: PSS Work Order No: **10051707**

Project Name : NTCB

Project Location: Port Deposit

Project ID.: 1462309

Dear (b) (4) :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10051707**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on July 16, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or [info@phaseonline.com](mailto:info@phaseonline.com).

(b) (4)

Laboratory Director



## Case Narrative Summary

Client Name: ARGO Systems

Project Name: NTCB

Project ID: 1462309

Work Order Number: 10051707

The following samples were received under chain of custody by Phase Separation Science (PSS) on 05/17/2010 at 12:20 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10051707-001	AOC-35-9	SOIL	05/14/2010 11:30
10051707-002	AOC-35-8	SOIL	05/14/2010 11:05
10051707-003	AOC-35-7	SOIL	05/14/2010 10:50
10051707-004	AOC-35-6	SOIL	05/14/2010 10:30
10051707-005	AOC-35-1	SOIL	05/14/2010 10:00
10051707-006	AOC-35-3	SOIL	05/14/2010 09:25
10051707-007	AOC-35-2	SOIL	05/14/2010 09:45
10051707-008	AOC-35-5	SOIL	05/14/2010 08:45
10051707-009	AOC-35-4	SOIL	05/14/2010 09:00
10051707-010	AOC-35-13	SOIL	05/14/2010 14:00
10051707-011	AOC-35-14	SOIL	05/14/2010 13:50
10051707-012	AOC-35-10	SOIL	05/14/2010 13:05
10051707-013	AOC-35-15	SOIL	05/14/2010 13:30
10051707-014	DUP AOC-35-01	SOIL	05/14/2010 00:00
10051707-015	DUP AOC-35-01a	SOIL	05/14/2010 00:00
10051707-016	AOC-14-UST-2/8-10	SOIL	05/14/2010 13:45
10051707-017	AOC-14-UST-1/8-10	SOIL	05/14/2010 14:00
10051707-018	AOC-14-2/2-4	SOIL	05/14/2010 14:30
10051707-019	AOC-14-1/0-2	SOIL	05/14/2010 14:00
10051707-020	AOC-14-1/2-4	SOIL	05/14/2010 14:00
10051707-021	AOC-14-2/0-2	SOIL	05/14/2010 14:30
10051707-022	R-65/2-4	SOIL	05/06/2010 09:15
10051707-023	EB-9	WATER	05/14/2010 00:00
10051707-024	EB-10	WATER	05/14/2010 00:00

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

### Narrative Comments:

Terphenyl-d14 fell below 50% in the following samples:

001,004,005,009,010,012,014,018,019.

Chrysene-d12 fell below 50% in the following samples:

004,009,018.

### Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].





## Case Narrative Summary

Client Name: ARGO Systems

Project Name: NTCB

Project ID: 1462309

Work Order Number: 10051707

### Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10051707

**ARGO Systems, Glen Burnie, MD**

May 24, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

<b>Sample ID: EB-9</b>	<b>Date/Time Sampled: 05/14/2010 00:00</b>	<b>PSS Sample ID: 10051707-023</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 05/17/2010 12:20</b>	

PP MDE Metals

Analytical Method: SW846 6020A

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:46	1033
Arsenic	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:46	1033
Beryllium	ND	ug/L	0.5		1	0.5	05/18/10	05/20/10 21:46	1033
Cadmium	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:46	1033
Chromium	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:46	1033
Copper	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:46	1033
Lead	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:46	1033
Mercury	ND	ug/L	0.20		1	0.1	05/18/10	05/20/10 21:46	1033
Nickel	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:46	1033
Selenium	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:46	1033
Silver	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:46	1033
Thallium	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:46	1033
Zinc	15	ug/L	20	J	1	10	05/18/10	05/20/10 21:46	1033

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10051707

**ARGO Systems, Glen Burnie, MD**

May 24, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

<b>Sample ID: EB-9</b>	<b>Date/Time Sampled: 05/14/2010 00:00</b>	<b>PSS Sample ID: 10051707-023</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 05/17/2010 12:20</b>	

SVOC PAHs List\_MDE

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	05/21/10	05/22/10 18:02	1014
Acenaphthylene	ND	ug/L	5		1	2.5	05/21/10	05/22/10 18:02	1014
Anthracene	ND	ug/L	5		1	2.5	05/21/10	05/22/10 18:02	1014
Benzo(a)anthracene	ND	ug/L	0.5		1	0.5	05/21/10	05/22/10 18:02	1014
Benzo(a)pyrene	ND	ug/L	0.5		1	0.5	05/21/10	05/22/10 18:02	1014
Benzo(b)fluoranthene	ND	ug/L	0.5		1	0.5	05/21/10	05/22/10 18:02	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	05/21/10	05/22/10 18:02	1014
Benzo(k)fluoranthene	ND	ug/L	0.5		1	0.5	05/21/10	05/22/10 18:02	1014
Chrysene	ND	ug/L	2		1	1	05/21/10	05/22/10 18:02	1014
Dibenz(a,h)Anthracene	ND	ug/L	0.5		1	0.5	05/21/10	05/22/10 18:02	1014
Fluoranthene	ND	ug/L	5		1	2.5	05/21/10	05/22/10 18:02	1014
Fluorene	ND	ug/L	5		1	2.5	05/21/10	05/22/10 18:02	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	0.5		1	0.5	05/21/10	05/22/10 18:02	1014
2-Methylnaphthalene	ND	ug/L	2		1	2	05/21/10	05/22/10 18:02	1014
Naphthalene	ND	ug/L	0.5		1	0.5	05/21/10	05/22/10 18:02	1014
Phenanthrene	ND	ug/L	5		1	2.5	05/21/10	05/22/10 18:02	1014
Pyrene	ND	ug/L	5		1	2.5	05/21/10	05/22/10 18:02	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10051707

**ARGO Systems, Glen Burnie, MD**

May 24, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

<b>Sample ID: EB-10</b>	<b>Date/Time Sampled: 05/14/2010 00:00</b>	<b>PSS Sample ID: 10051707-024</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 05/17/2010 12:20</b>	

PP MDE Metals

Analytical Method: SW846 6020A

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:53	1033
Arsenic	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:53	1033
Beryllium	ND	ug/L	0.5		1	0.5	05/18/10	05/20/10 21:53	1033
Cadmium	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:53	1033
Chromium	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:53	1033
Copper	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:53	1033
Lead	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:53	1033
Mercury	ND	ug/L	0.20		1	0.1	05/18/10	05/20/10 21:53	1033
Nickel	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:53	1033
Selenium	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:53	1033
Silver	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:53	1033
Thallium	ND	ug/L	1.0		1	0.5	05/18/10	05/20/10 21:53	1033
Zinc	<b>14</b>	ug/L	20	J	1	10	05/18/10	05/20/10 21:53	1033

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10051707

**ARGO Systems, Glen Burnie, MD**

May 24, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

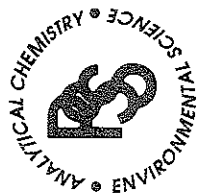
<b>Sample ID: EB-10</b>	<b>Date/Time Sampled: 05/14/2010 00:00</b>	<b>PSS Sample ID: 10051707-024</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 05/17/2010 12:20</b>	

SVOC PAHs List\_MDE

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	05/21/10	05/22/10 18:31	1014
Acenaphthylene	ND	ug/L	5		1	2.5	05/21/10	05/22/10 18:31	1014
Anthracene	ND	ug/L	5		1	2.5	05/21/10	05/22/10 18:31	1014
Benzo(a)anthracene	ND	ug/L	0.5		1	0.5	05/21/10	05/22/10 18:31	1014
Benzo(a)pyrene	ND	ug/L	0.5		1	0.5	05/21/10	05/22/10 18:31	1014
Benzo(b)fluoranthene	ND	ug/L	0.5		1	0.5	05/21/10	05/22/10 18:31	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	05/21/10	05/22/10 18:31	1014
Benzo(k)fluoranthene	ND	ug/L	0.5		1	0.5	05/21/10	05/22/10 18:31	1014
Chrysene	ND	ug/L	2		1	1	05/21/10	05/22/10 18:31	1014
Dibenz(a,h)Anthracene	ND	ug/L	0.5		1	0.5	05/21/10	05/22/10 18:31	1014
Fluoranthene	ND	ug/L	5		1	2.5	05/21/10	05/22/10 18:31	1014
Fluorene	ND	ug/L	5		1	2.5	05/21/10	05/22/10 18:31	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	0.5		1	0.5	05/21/10	05/22/10 18:31	1014
2-Methylnaphthalene	ND	ug/L	2		1	2	05/21/10	05/22/10 18:31	1014
Naphthalene	ND	ug/L	0.5		1	0.5	05/21/10	05/22/10 18:31	1014
Phenanthrene	ND	ug/L	5		1	2.5	05/21/10	05/22/10 18:31	1014
Pyrene	ND	ug/L	5		1	2.5	05/21/10	05/22/10 18:31	1014



# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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email: info@phaseonline.com

## PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EPA		OFFICE LOC. Sparks, MD		PSS Work Order #: 10051707		PAGE 1 OF 3	
PROJECT MGR: [REDACTED]		PHONE NO.: 410 329-5114		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe			
EMAIL: [REDACTED]		FAX NO.: 410 771-4904					
PROJECT NAME: NTCB		PROJECT NO.: 14162309					
SITE LOCATION: Port Deposit		P.O. NO.:					
SAMPLERS: [REDACTED]							
2		3		4		5	
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)			
1	AOC-35-9	5/14/10	1130	S			
2	AOC-35-8		1105				
3	AOC-35-7		1050				
4	AOC-35-6		1030				
5	AOC-35-1		1000				
6	AOC-35-3		0925				
7	AOC-35-2		0945				
8	AOC-35-5		0845				
9	AOC-35-4		0900				
10	AOC-35-13		1400				
Relinquished By: (1)		Date	Time	Received By:			
[REDACTED]		5/17/10	1048	[REDACTED]			
Relinquished By: (2)		Date	Time	Received By:			
[REDACTED]		5-17-10	0220	[REDACTED]			
Relinquished By: (3)		Date	Time	Received By:			
[REDACTED]							
Relinquished By: (4)		Date	Time	Received By:			
[REDACTED]							
					Requested Turnaround Time		
					<input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Other		
					<input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input checked="" type="checkbox"/>		
					Data Deliverables Required:		
					Special Instructions:		
					# of Coolers: 10		
					Custody Seal: ABS		
					Ice Present: PRES Temp: 20		
					Shipping Carrier: DIAL		

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The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.





<b>1</b> CLIENT: <b>EPA</b> OFFICE LOC: <b>SPARKS, MD</b>		<b>10051707</b>		PAGE <b>2</b> OF <b>3</b>	
PROJECT MGR: <b>(4) (b) (6)</b> PHONE NO.: <b>(410) 329-5114</b>		PSS Work Order #: <b>10051707</b>			
EMAIL: <b>(4) (b) (6) @paesi.com</b> FAX NO.: <b>(410) 771-4904</b>		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe			
PROJECT NAME: <b>NTCB</b> PROJECT NO.: <b>1410309</b>		Preservatives Used: <b>TPH-GRO</b> Analysis/Method Required: <b>TPH-DRO</b> Method: <b>SVCS</b>			
SITE LOCATION: <b>Port Deposit</b> P.O. NO.:		SAMPLES: <b>(4) (b) (6)</b>			
<b>2</b>		<b>3</b>			
LAB NO	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	
11	AOC-35-14	5/14/10	1350	S	
12	AOC-35-10		1305	S	
13	AOC-35-15		1330	S	
14	DUP-AOC-35-01		-	S	
15	DUP-AOC-35-01a		-	S	
16	AOC-14-UST-2/8-10		1345	S	
17	AOC-14-UST-1/8-10		1400	S	
18	AOC-14-2/2-4		1430	S	
19	AOC-14-1/0-2		1400	S	
20	AOC-14-1/2-4		1400	S	
<b>5</b> Relinquished By: (1)		Date: <b>5/19/10</b>	Time: <b>1045</b>	Received By: <b>(4) (b) (6)</b>	Received By:
Relinquished By: (2)		Date: <b>5/17/10</b>	Time: <b>10:25</b>	Received By: <b>(4) (b) (6)</b>	Received By:
Relinquished By: (3)		Date:	Time:	Received By:	Received By:
Relinquished By: (4)		Date:	Time:	Received By:	Received By:
Special Instructions:					
Data Deliverables Required:					
Shipping Carrier: <b>DIAL</b>					
Ice Present: <b>YES</b> Temp: <b>20</b>					
Custody Seal: <b>ABS</b>					
# of Coolers: <b>6</b>					
Requested Turnaround Time: <b>4</b>					
5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Other <input checked="" type="checkbox"/>					
Next Day <input type="checkbox"/> Emergency <input checked="" type="checkbox"/>					
Yes Gro					

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The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.





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# Phase Separation Science, Inc

## Sample Receipt Checklist

Wo Number 10051707

Client Name ARGO Systems

Project Name NTCB

Project Number 1462309

Disposal Date: 07/16/2010

Received By (b) (4)

Date Received 05/17/2010 12:20:00 PM

Delivered By Dial Courier

Tracking No Not Applicable

Logged In By (b) (4)

### Shipping Container(s)

No. of Coolers 6

Custody Seals Absent

Seal Condition Absent

Ice Present

Temp (deg C) 2

Temp Blank Present No

### Documentation

COC agrees with sample labels? ☒ Yes or ☐ No

Sampler Name: (b) (4)

Chain of Custody (COC) ☒ Yes or ☐ No

MD DW Cert. No.: N/A

### Sample Container

Appropriate for Specified Analysis? Yes ☒ No ☐

Intact? ☒

Labeled and Labels Legible ☒

Total No. of Samples Received 24

Custody Seal(s) Absent

Custody Seal(s) Intact? Not Applicable

Seal(s) Signed / Dated Not Applicable

Total No of Containers Received 199

### Preservation

	Yes	No	N/A
Metals (pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cyanides (pH>12)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sulfide (pH>9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOC, COD, Phenols (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved) (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do VOA vials have zero headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling

Samples Inspected/Checklist Completed By: (b) (4)

Date: 5/18/10

PM Review and Approval: \_\_\_\_\_

Date: \_\_\_\_\_

# Analytical Report for

## ARGO Systems

**Certificate of Analysis No.: 10052118**

**Project Manager:** (b) (4)

**Project Name :** NTCB

**Project Location:** Port Deposit

**Project ID :** 1462309



**July 28, 2010**

**Phase Separation Science, Inc.**

**6630 Baltimore National Pike**

**Baltimore, MD 21228**

**Phone: (410) 747-8770**

**Fax: (410) 788-8723**

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# PHASE SEPARATION SCIENCE, INC.



July 28, 2010

(b) (4)

**ARGO Systems**

1403 Madison Park Dr., Ste. 205  
Glen Burnie, MD 21061

Reference: PSS Work Order No: **10052118**

Project Name : NTCB

Project Location: Port Deposit

Project ID.: 1462309

Dear (b) (4) :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10052118**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on June 25, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or [info@phaseonline.com](mailto:info@phaseonline.com).

(b) (4)

Laboratory Manager



## Case Narrative Summary

Client Name: ARGO Systems

Project Name: NTCB

Project ID: 1462309

Work Order Number: 10052118

The following samples were received under chain of custody by Phase Separation Science (PSS) on 05/21/2010 at 03:40 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10052118-001	AOC-28-SW-SW MS/MSD	SURFACE WATER	05/20/2010 14:10
10052118-002	AOC-28-SW-NW	SURFACE WATER	05/20/2010 13:50
10052118-003	AOC-28-SW-SE	SURFACE WATER	05/20/2010 14:50
10052118-004	DUP-AOC-28-SW-01	SURFACE WATER	05/20/2010 00:00
10052118-005	DUP-SED-01	SOIL	05/20/2010 00:00
10052118-006	AOC-28-SED-SW MS/MSD	SOIL	05/20/2010 14:10
10052118-007	AOC-28-SED-SE	SOIL	05/20/2010 14:50
10052118-008	AOC-28-SED-NW	SOIL	05/20/2010 13:50
10052118-009	AOC-28-14	SOIL	05/20/2010 09:50
10052118-010	AOC-28-22	SOIL	05/20/2010 10:55
10052118-011	AOC-28-04	SOIL	05/20/2010 10:20
10052118-012	AOC-28-21	SOIL	05/20/2010 10:50
10052118-013	AOC-28-08	SOIL	05/20/2010 10:05
10052118-014	AOC-28-26	SOIL	05/20/2010 11:00
10052118-015	AOC-28-05 MS/MSD	SOIL	05/20/2010 08:50
10052118-016	AOC-28-25	SOIL	05/20/2010 11:15
10052118-017	AOC-28-18	SOIL	05/20/2010 10:45
10052118-018	AOC-28-30	SOIL	05/20/2010 11:30
10052118-019	AOC-28-13	SOIL	05/20/2010 09:10
10052118-020	AOC-28-SW-NE	SURFACE WATER	05/21/2010 09:05
10052118-021	AOC-28-11	SOIL	05/20/2010 09:40
10052118-022	AOC-28-10	SOIL	05/20/2010 10:15
10052118-023	AOC-28-15	SOIL	05/20/2010 10:35
10052118-024	AOC-28-16	SOIL	05/20/2010 10:40
10052118-025	DUP-AOC-28-01	SOIL	05/20/2010 00:00
10052118-026	DUP-AOC-28-02	SOIL	05/20/2010 00:00
10052118-027	AOC-28-07	SOIL	05/20/2010 10:00
10052118-028	AOC-28-23	SOIL	05/20/2010 13:20
10052118-029	AOC-28-09	SOIL	05/20/2010 09:00
10052118-030	AOC-28-06	SOIL	05/20/2010 09:30
10052118-031	AOC-28-1	SOIL	05/20/2010 09:20
10052118-032	AOC-28-3	SOIL	05/20/2010 10:15
10052118-033	DUP-AOC-28-03	SOIL	05/20/2010 00:00
10052118-034	AOC-28-31	SOIL	05/20/2010 11:10
10052118-035	AOC-28-32	SOIL	05/20/2010 11:05
10052118-036	AOC-28-24	SOIL	05/20/2010 13:10
10052118-037	AOC-28-02 MS/MSD	SOIL	05/20/2010 08:55
10052118-038	AOC-28-12	SOIL	05/20/2010 10:25
10052118-039	AOC-28-17	SOIL	05/20/2010 10:30
10052118-040	DUP-AOC-28-04	SOIL	05/20/2010 00:00
10052118-041	AOC-28-SED-NE	SOIL	05/21/2010 09:05
10052118-042	EB-11	SURFACE WATER	05/21/2010 10:00
10052118-043	EB-12	SURFACE WATER	05/21/2010 10:05



## Case Narrative Summary

Client Name: ARGO Systems

Project Name: NTCB

Project ID: 1462309

Work Order Number: 10052118

10052118-044	TB-01	WATER	05/21/2010 00:00
10052118-045	AOC-3-49/0-2	SOIL	05/12/2010 11:00
10052118-046	AOC-3-39/0-2 MS/MSD	SOIL	05/12/2010 13:45
10052118-047	AOC-3-50/0-2	SOIL	05/12/2010 10:20
10052118-048	AOC-3-23/0-2	SOIL	05/12/2010 13:15
10052118-049	AOC-3-46/0-2	SOIL	05/12/2010 10:05
10052118-050	AOC-3-11/0-2	SOIL	05/12/2010 12:00
10052118-051	AOC-3-4/0-2	SOIL	05/12/2010 11:00
10052118-052	AOC-3-16/0-2	SOIL	05/12/2010 12:45
10052118-053	AOC-3-48/0-2	SOIL	05/12/2010 10:35
10052118-054	AOC-3-21/0-2	SOIL	05/13/2010 08:10
10052118-055	DUP-AOC-3-10	SOIL	05/12/2010 00:00
10052118-056	AOC-3-42/0-2	SOIL	05/12/2010 11:20
10052118-057	AOC-3-38/0-2	SOIL	05/13/2010 08:30
10052118-058	R-50/2-4	SOIL	05/06/2010 08:45
10052118-059	NR-11/2-4	SOIL	05/04/2010 09:00
10052118-060	NR-5/2-4	SOIL	05/04/2010 13:30
10052118-061	R-109/2-4	SOIL	05/06/2010 08:55
10052118-062	NR-44/2-4	SOIL	05/03/2010 10:45
10052118-063	NR-43/2-4	SOIL	05/03/2010 10:20
10052118-064	NR-8/2-4	SOIL	05/04/2010 09:25
10052118-065	R-33/2-4	SOIL	05/04/2010 13:15
10052118-066	1A-39/2-4	SOIL	05/07/2010 14:40
10052118-067	AOC-3-41/0-2	SOIL	05/12/2010 14:00
10052118-068	DUP-AOC-3-11	SOIL	05/12/2010 00:00
10052118-069	AOC-3-18/0-2	SOIL	05/11/2010 12:30
10052118-070	AOC-3-34/0-2	SOIL	05/12/2010 14:50
10052118-071	DUP-AOC-3-12	SOIL	05/12/2010 00:00
10052118-072	AOC-3-30/0-2	SOIL	05/12/2010 13:05
10052118-073	AOC-3-13/0-2	SOIL	05/11/2010 09:00
10052118-074	AOC-3-37/0-2	SOIL	05/12/2010 12:45
10052118-075	AOC-3-20/0-2	SOIL	05/12/2010 09:30
10052118-076	AOC-3-28/0-2	SOIL	05/12/2010 14:40
10052118-077	AOC-3-25/0-2	SOIL	05/11/2010 10:00
10052118-078	AOC-3-36/0-2	SOIL	05/12/2010 13:40
10052118-079	AOC-3-40/0-2 MS/MSD	SOIL	05/12/2010 14:10

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

### Narrative Comments:

Total metals (water):

Intermediate and Closing CCV's have a Ag recovery of 89%, 87% respectively, limits 90-110%. Samples affected are 001-004, 020, 043

Total metals (solids):





# Case Narrative Summary

Client Name: ARGO Systems

Project Name: NTCB

Project ID: 1462309

Work Order Number: 10052118

Intermediate and Closing CCV's have a Be recovery of 88%, 86% respectively, limits 90-110%. Samples affected are 005-008.

GC/MS - Samples 005, 006, 007, 008, 041, 006 MS, 006 MSD - both sodium bisulfate containers for each samples were analyzed in a batch with tetrachloroethene carryover. These samples were reanalyzed using Preparation Method SW5030 and the results were reported.

Total metals (soils):

Opening CCV has a Be recovery of 89%, limits 90-110%. Samples affected are 076, 077, 078.

PCBs:

The PCB matrix spike and matrix spike duplicate were inadvertently spiked with the pesticide spike solution instead of the PCB spike solution; the laboratory control sample and laboratory control sample duplicate were acceptable.

## Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

## Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect.  
An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10052118

**ARGO Systems, Glen Burnie, MD**

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

<b>Sample ID: EB-11</b>	<b>Date/Time Sampled: 05/21/2010 10:00</b>	<b>PSS Sample ID: 10052118-042</b>
<b>Matrix: SURFACE WATER</b>	<b>Date/Time Received: 05/21/2010 15:40</b>	

Total Petroleum Hydrocarbons - DRO

Analytical Method: SW846 8015C

Preparation Method: SW846 3510C

	<b>Result</b>	<b>Units</b>	<b>RL</b>	<b>Flag</b>	<b>Dil</b>	<b>LOD</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Analyst</b>
TPH-DRO (Diesel Range Organics)	<b>0.075</b>	mg/L	0.040		1	0.04	05/24/10	05/24/10 13:40	1040

Total Petroleum Hydrocarbons-GRO

Analytical Method: SW846 8015C

Preparation Method: SW846 5030B

	<b>Result</b>	<b>Units</b>	<b>RL</b>	<b>Flag</b>	<b>Dil</b>	<b>LOD</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Analyst</b>
TPH-GRO (Gasoline Range Organics)	ND	ug/L	40		1	40	05/24/10	05/24/10 11:55	1035

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## CERTIFICATE OF ANALYSIS

No: 10052118

**ARGO Systems, Glen Burnie, MD**

July 28, 2010

Project Name: NTCB

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Project ID: 1462309

<b>Sample ID: EB-11</b>	<b>Date/Time Sampled: 05/21/2010 10:00</b>	<b>PSS Sample ID: 10052118-042</b>
<b>Matrix: SURFACE WATER</b>	<b>Date/Time Received: 05/21/2010 15:40</b>	

VCP Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
Vinyl Chloride	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
Bromomethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
Chloroethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
Acetone	ND	ug/L	10		1	5	05/24/10	05/24/10 15:40	1011
1,1-Dichloroethene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
Methylene Chloride	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
Methyl-t-butyl ether	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
1,1-Dichloroethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
2-Butanone	ND	ug/L	10		1	5	05/24/10	05/24/10 15:40	1011
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
Chloroform	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
1,2-Dichloroethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
Carbon Tetrachloride	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
Benzene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
1,2-Dichloropropane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
Trichloroethene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
Carbon Disulfide	ND	ug/L	10		1	5	05/24/10	05/24/10 15:40	1011
Bromodichloromethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	05/24/10	05/24/10 15:40	1011
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
Toluene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
1,2-Dibromoethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
Dibromochloromethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
Bromoform	ND	ug/L	5		1	2.5	05/24/10	05/24/10 15:40	1011
Tetrachloroethene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10052118

**ARGO Systems, Glen Burnie, MD**

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

<b>Sample ID: EB-11</b>	<b>Date/Time Sampled: 05/21/2010 10:00</b>	<b>PSS Sample ID: 10052118-042</b>
<b>Matrix: SURFACE WATER</b>	<b>Date/Time Received: 05/21/2010 15:40</b>	

VCP Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chlorobenzene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
Ethylbenzene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
m,p-Xylenes	ND	ug/L	2		1	1	05/24/10	05/24/10 15:40	1011
Styrene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
o-Xylene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
Isopropylbenzene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
n-Propylbenzene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
1,3,5-Trimethylbenzene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
1,2,4-Trimethylbenzene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
n-Butylbenzene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 15:40	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	05/24/10	05/24/10 15:40	1011

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<b>Matrix: SURFACE WATER</b>	<b>Date/Time Received: 05/21/2010 15:40</b>	

VCP Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
Acenaphthylene	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
Anthracene	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
Benzo(a)anthracene	ND	ug/L	0.5		1	0.5	05/26/10	05/28/10 06:11	1014
Benzo(a)pyrene	ND	ug/L	0.5		1	0.5	05/26/10	05/28/10 06:11	1014
Benzo(b)fluoranthene	ND	ug/L	0.5		1	0.5	05/26/10	05/28/10 06:11	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
Benzo(k)fluoranthene	ND	ug/L	0.5		1	0.5	05/26/10	05/28/10 06:11	1014
bis(2-chloroethyl) ether	ND	ug/L	0.5		1	0.5	05/26/10	05/28/10 06:11	1014
bis(2-chloroisopropyl) ether	ND	ug/L	0.5		1	0.5	05/26/10	05/28/10 06:11	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
Carbazole	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
4-Chloroaniline	ND	ug/L	10		1	5	05/26/10	05/28/10 06:11	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
2-Chlorophenol	ND	ug/L	2		1	2	05/26/10	05/28/10 06:11	1014
Chrysene	ND	ug/L	2		1	1	05/26/10	05/28/10 06:11	1014
Dibenz(a,h)Anthracene	ND	ug/L	0.5		1	0.5	05/26/10	05/28/10 06:11	1014
Dibenzofuran	ND	ug/L	2		1	1	05/26/10	05/28/10 06:11	1014
1,2-Dichlorobenzene	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	05/26/10	05/28/10 06:11	1014
1,4-Dichlorobenzene	ND	ug/L	0.5		1	0.5	05/26/10	05/28/10 06:11	1014
3,3-Dichlorobenzidine	ND	ug/L	0.5		1	0.5	05/26/10	05/28/10 06:11	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
2,4-Dinitrophenol	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
2,6-Dinitrotoluene	ND	ug/L	2		1	1	05/26/10	05/28/10 06:11	1014
Fluoranthene	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

**Sample ID: EB-11** **Date/Time Sampled: 05/21/2010 10:00** **PSS Sample ID: 10052118-042**  
**Matrix: SURFACE WATER** **Date/Time Received: 05/21/2010 15:40**

VCP Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Fluorene	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
Hexachlorobenzene	ND	ug/L	1		1	0.5	05/26/10	05/28/10 06:11	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
Hexachloroethane	ND	ug/L	2		1	1	05/26/10	05/28/10 06:11	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	0.5		1	0.5	05/26/10	05/28/10 06:11	1014
Isophorone	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
2-Methylnaphthalene	ND	ug/L	2		1	1	05/26/10	05/28/10 06:11	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
Naphthalene	ND	ug/L	0.5		1	0.5	05/26/10	05/28/10 06:11	1014
Nitrobenzene	ND	ug/L	2		1	1	05/26/10	05/28/10 06:11	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	0.5		1	0.5	05/26/10	05/28/10 06:11	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
Pentachlorophenol	ND	ug/L	2		1	2	05/26/10	05/28/10 06:11	1014
Phenanthrene	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
Phenol	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
Pyrene	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
1,2,4-Trichlorobenzene	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014
Bis(2-ethylhexyl)adipate	ND	ug/L	5		1	2.5	05/26/10	05/28/10 06:11	1014

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## CERTIFICATE OF ANALYSIS

No: 10052118

**ARGO Systems, Glen Burnie, MD**

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

<b>Sample ID: EB-12</b>	<b>Date/Time Sampled: 05/21/2010 10:05</b>	<b>PSS Sample ID: 10052118-043</b>
<b>Matrix: SURFACE WATER</b>	<b>Date/Time Received: 05/21/2010 15:40</b>	

PP MDE Metals

Analytical Method: SW846 6020A

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 18:01	1033
Arsenic	ND	ug/L	1.0		1	0.5	05/25/10	05/28/10 11:30	1033
Beryllium	ND	ug/L	0.5		1	0.5	05/25/10	05/25/10 18:01	1033
Cadmium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 18:01	1033
Chromium	<b>2.6</b>	ug/L	1.0		1	0.5	05/25/10	05/25/10 18:01	1033
Copper	<b>0.7</b>	ug/L	1.0		1	0.5	05/25/10	05/28/10 11:30	1033
Lead	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 18:01	1033
Mercury	ND	ug/L	0.20		1	0.1	05/25/10	05/25/10 18:01	1033
Nickel	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 18:01	1033
Selenium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 18:01	1033
Silver	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 18:01	1033
Thallium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 18:01	1033
Zinc	ND	ug/L	20		1	10	05/25/10	05/25/10 18:01	1033

VCP Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:37	1029
PCB-1221	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:37	1029
PCB-1232	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:37	1029
PCB-1242	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:37	1029
PCB-1248	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:37	1029
PCB-1254	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:37	1029
PCB-1260	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:37	1029



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## CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

<b>Sample ID: TB-01</b>	<b>Date/Time Sampled: 05/21/2010 00:00</b>	<b>PSS Sample ID: 10052118-044</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 05/21/2010 15:40</b>	

VCP Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
Vinyl Chloride	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
Bromomethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
Chloroethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
Acetone	ND	ug/L	10		1	5	05/24/10	05/24/10 16:08	1011
1,1-Dichloroethene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
Methylene Chloride	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
Methyl-t-butyl ether	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
1,1-Dichloroethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
2-Butanone	ND	ug/L	10		1	5	05/24/10	05/24/10 16:08	1011
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
Chloroform	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
1,2-Dichloroethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
Carbon Tetrachloride	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
Benzene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
1,2-Dichloropropane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
Trichloroethene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
Carbon Disulfide	ND	ug/L	10		1	5	05/24/10	05/24/10 16:08	1011
Bromodichloromethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	05/24/10	05/24/10 16:08	1011
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
Toluene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
1,2-Dibromoethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
Dibromochloromethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
Bromoform	ND	ug/L	5		1	2.5	05/24/10	05/24/10 16:08	1011
Tetrachloroethene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011



OFFICES:  
6630 BALTIMORE NATIONAL PIKE  
ROUTE 40 WEST  
BALTIMORE, MD 21228  
410-747-8770  
800-932-9047  
FAX 410-788-8723

# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

<b>Sample ID: TB-01</b>	<b>Date/Time Sampled: 05/21/2010 00:00</b>	<b>PSS Sample ID: 10052118-044</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 05/21/2010 15:40</b>	

VCP Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chlorobenzene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
Ethylbenzene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
m,p-Xylenes	ND	ug/L	2		1	1	05/24/10	05/24/10 16:08	1011
Styrene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
o-Xylene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
Isopropylbenzene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
n-Propylbenzene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
1,3,5-Trimethylbenzene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
1,2,4-Trimethylbenzene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
n-Butylbenzene	ND	ug/L	1		1	0.5	05/24/10	05/24/10 16:08	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	05/24/10	05/24/10 16:08	1011

<b>Sample ID: AOC-3-49/0-2</b>	<b>Date/Time Sampled: 05/12/2010 11:00</b>	<b>PSS Sample ID: 10052118-045</b>
<b>Matrix: SOIL</b>	<b>Date/Time Received: 05/21/2010 15:40</b>	<b>% Solids: 88</b>

VCP Metals

Analytical Method: SW846 6020A

Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Arsenic	3.8	mg/kg	0.3		1	0.3	05/25/10	05/27/10 01:27	1033
Lead	14	mg/kg	2.5		1	1.3	05/25/10	05/27/10 01:27	1033

<b>Sample ID: AOC-3-39/0-2 MS/MSD</b>	<b>Date/Time Sampled: 05/12/2010 13:45</b>	<b>PSS Sample ID: 10052118-046</b>
<b>Matrix: SOIL</b>	<b>Date/Time Received: 05/21/2010 15:40</b>	<b>% Solids: 89</b>

VCP Metals

Analytical Method: SW846 6020A

Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Arsenic	4.4	mg/kg	0.2		1	0.2	05/25/10	05/27/10 22:16	1033
Lead	15	mg/kg	2.2		1	1.1	05/25/10	05/27/10 22:16	1033



# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

## PHASE SEPARATION SCIENCE, INC.

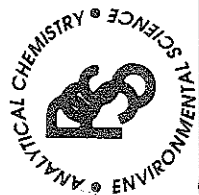
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CLIENT: <b>EPA</b>		OFFICE LOC: <b>Sparks, MD</b>	PSS Work Order #: <b>10052118</b>	PAGE: <b>1</b> OF <b>8</b>	
PROJECT MG: <b>[REDACTED]</b>		PHONE NO.: <b>(410) 329-5714</b>	Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W= Wipe		
EMAIL: <b>[REDACTED]</b>		FAX NO.: <b>(410) 371-4204</b>			
PROJECT NAME: <b>NTCB</b>		PROJECT NO.: <b>146289</b>			
SITE LOCATION: <b>Port Deposit</b>		P.O. NO.:			
SAMPLERS: <b>[REDACTED]</b>					
LAB NO.		SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)
1	*AOC-28-SW-SW	MSD	5/21/10	1410	SW
2	*AOC-28-SW-NW		5/21/10	1350	
3	*AOC-28-SW-SE		5/21/10	1450	
4	*Dup-AOC-28-SW-OI				
5	*Dup-SED-OI				SED
6	*AOC-28-SED-SW	MSD	5/21/10	1410	
7	*AOC-28-SED-SE		5/21/10	1430	
8	*AOC-28-SED-NW		5/21/10	1350	
9	AOC-28-14		5/21/10	0950	SW
10	AOC-28-22		5/21/10	1055	
Relinquished By: (3)		Date	Time	Received By: (b) (4)	
Relinquished By: (4)		Date	Time	Received By: (b) (4)	
Relinquished By: (3)		Date	Time	Received By:	
Relinquished By: (4)		Date	Time	Received By:	

Preservatives Used	Analysis/Method Required	3	VOCs	SVOCs	PCBs	TPH-Metals	TPH-DRD	TPH-6-126	Pesticides	Mercury	REMARKS
X	X	X	X	X	X	X	X	X	X	X	*FChrom-15
X	X	X	X	X	X	X	X	X	X	X	identified base
X	X	X	X	X	X	X	X	X	X	X	Residential Comp
X	X	X	X	X	X	X	X	X	X	X	Standard Sample
X	X	X	X	X	X	X	X	X	X	X	should be analyzed
X	X	X	X	X	X	X	X	X	X	X	for HexChrom
X	X	X	X	X	X	X	X	X	X	X	Mixed V. Phase
X	X	X	X	X	X	X	X	X	X	X	infant HA
X	X	X	X	X	X	X	X	X	X	X	before running!

# of Coolers: 9	Custody Seal: ABS	Ice Present: PBS	Temp: 50C
Requested Turnaround Time: <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input checked="" type="checkbox"/> Other		Shipping Carrier: DIAL	
Data Deliverables Required:			
Special Instructions:			

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# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

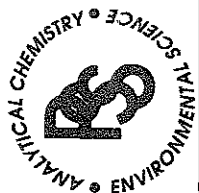
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1 CLIENT: EPA		OFFICE LOC. Sparks, MD		PSS Work Order # 10052118		PAGE 2 OF 8	
PROJECT MGR: [REDACTED]		PHONE NO.: (410) 329-5114		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W= Wipe			
EMAIL: [REDACTED]		FAX NO.: (410) 771-4204					
PROJECT NAME: NUTCB		PROJECT NO.: 1412307					
SITE LOCATION: Port Deposit		P.O. NO.:					
SAMPLERS: [REDACTED]							
2		3		4		5	
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	CONTAINER	SAMPLE TYPE	ANALYSIS METHOD REQUIRED
11	AOC-28-04	5/20/10	1020	S	1	5VOLS	③
12	AOC-28-21	5/21/10	1050	S	1	PCBs	
13	AOC-28-08	5/21/10	1005	S	1	TRH-DEP	
14	AOC-28-26	5/21/10	1100	S	1	TRH-LKD	
15	AOC-28-05 MSJMED	5/21/10	0850	S	3	Pesticides	
16	AOC-28-25	5/21/10	1115	S	1	Mercury	
17	AOC-28-18	5/21/10	1045	S	1		
18	AOC-28-30	5/21/10	1130	S	1		
19	AOC-28-13	5/21/10	0910	S	1		
20	AOC-28-30-NE	5/21/10	0905	S	1		
Relinquished By: [REDACTED]		Date: 5/21/10	Time: 1330	Requested Turnaround Time: <input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day			
Relinquished By: [REDACTED]		Date: 5/21/10	Time: 1540	Custody Seal: ABS			
Relinquished By: [REDACTED]		Date:	Time:	Ice Present: ABS Temp: 3°C			
Relinquished By: [REDACTED]		Date:	Time:	Shipping Carrier: DIAL			
Relinquished By: [REDACTED]		Date:	Time:	Special Instructions:			
Relinquished By: [REDACTED]		Date:	Time:				

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# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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## PHASE SEPARATION SCIENCE, INC.

1 CLIENT: <b>LEPT</b>		OFFICE LOC: <b>Sparks, MD</b>		PSS Work Order #: <b>10052118</b>		PAGE <b>3</b> OF <b>8</b>	
PROJECT MGR: <b>(b)(6)</b>		PHONE NO.: <b>(410) 324-5114</b>		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W= Wipe			
EMAIL: <b>(b)(6)</b>		FAX NO.: <b>(410) 771-4204</b>		Preservatives Used: <b>None</b>			
PROJECT NAME: <b>NTCB</b>		PROJECT NO.: <b>1462301</b>		SAMPLE TYPE: <b>PCBS</b>			
SITE LOCATION: <b>Art Deposit</b>		P.O. NO.:		C = COMP			
SAMPLERS: <b>(b)(6)</b>				G = GRAB			
2		3		4		5	
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	CONTAINER NO.	SAMPLE TYPE	REMARKS
21	AOC-28-11	5/20/10	0940	S	1	C	
22	AOC-28-10		1015		1	C	
23	AOC-28-15		1035		1	C	
24	AOC-28-16		1040		1	C	
25	Dep-AOC-28-01		-		1	C	
26	Dep-AOC-28-02		-		1	C	
27	AOC-28-07		1000		1	C	
28	AOC-28-23		1320		1	C	
29	AOC-28-09		0900		1	C	
30	AOC-28-06		0930		1	C	
5 Relinquished By: <b>(b)(6)</b>		Date: <b>5/21/10</b>	Time: <b>1320</b>	Requested Turnaround Time: <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input checked="" type="checkbox"/> Other		# of Coolers: <b>9</b>	
Relinquished By: <b>(b)(6)</b>		Date: <b>5/21/10</b>	Time: <b>1540</b>	Data Deliverables Required:		Custody Seal: <b>ABS</b>	
Relinquished By: (3)		Date:	Time:	Special Instructions:		Ice Present: <b>YES</b> Temp: <b>50°</b>	
Relinquished By: (4)		Date:	Time:			Shipping Carrier: <b>DIAL</b>	

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# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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# PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EPA		OFFICE LOC. Sparks, MD		PSS Work Order # 10052118		PAGE 4 OF 8			
PROJECT MGR: [redacted]		PHONE NO.: (410) 324-5114		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe					
EMAIL: [redacted]		FAX NO.: (410) 771-4704		Preservatives Used					
PROJECT NAME: WTLB		PROJECT NO.: 146289		Analysis/Method Required (3)					
SITE LOCATION: Port Deposit		P.O. NO.:		SAMPLE TYPE C = COMP G = GRAB					
SAMPLERS: [redacted]		[redacted]		CONTAINERS					
2 LAB NO.		SAMPLE IDENTIFICATION		DATE		TIME		MATRIX (See Codes)	
31	AOC-28-1	5/29/10		0920		S		1	
32	AOC-28-3	1015		1110		1105		1	
33	Dup-AOC-28-03	1310		0855		1025		3	
34	AOC-28-31	1030						1	
35	AOC-28-32							1	
36	AOC-28-24							1	
37	AOC-28-02 mixed							1	
38	AOC-28-12							1	
39	AOC-28-17							1	
40	Dup-AOC-28-04							1	
5 [redacted]		Date		Time		Date		Time	
[redacted]		5/21/10		1330		5/21/10		1330	
[redacted]		5/21/10		1540		5/21/10		1540	
Relinquished By: (3)		Date		Time		Date		Time	
Relinquished By: (4)		Date		Time		Date		Time	
Relinquished By: (3)		Date		Time		Date		Time	
Relinquished By: (4)		Date		Time		Date		Time	
Relinquished By: (3)		Date		Time		Date		Time	
Relinquished By: (4)		Date		Time		Date		Time	
Relinquished By: (3)		Date		Time		Date		Time	
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Relinquished By: (3)		Date		Time		Date		Time	
Relinquished By: (4)		Date		Time		Date		Time	
Relinquished By: (3)		Date		Time		Date		Time	
Relinquished By: (4)		Date		Time		Date		Time	
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Relinquished By: (3)		Date		Time		Date		Time	
Relinquished By: (4)		Date		Time		Date		Time	
Relinquished By: (3)		Date		Time		Date		Time	
Relinquished By: (4)		Date		Time		Date		Time	
Relinquished By: (3)									

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# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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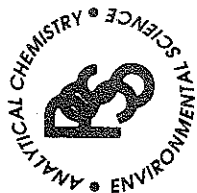
1		CLIENT: <b>EP/A</b>	OFFICE LOC: <b>Sparks, MD</b>	PSS Work Order #: <b>10052118</b>		PAGE <b>3</b> OF <b>8</b>
PROJECT MGR: <b>(b)(6)</b>		PHONE NO.: <b>(410) 329-5114</b>		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe		
EMAIL: <b>(b)(6)</b>		FAX NO.: <b>(410) 771-4204</b>				
PROJECT NAME: <b>NTC B</b>		PROJECT NO.: <b>1412309</b>				
SITE LOCATION: <b>Port Deposit</b>		P.O. NO.:				
SAMPLERS: <b>(b)(6)</b>						
2		LAB NO.		SAMPLE IDENTIFICATION	DATE	TIME
41		*AOC-28-SED		NEG	5/21/10	0905
42		EB-11			↓	1000
43		EB-12			↓	1005
44		TB-01			5/21/10	-
45		AOC-3-49/0-2			5/12/10	1100
46		AOC-3-39/0-2		MS/MSD	1345	
47		AOC-3-50/0-2			1020	
48		AOC-3-23/0-2*			1315	
49		AOC-3-46/0-2			↓	1005
5		Relinquished By: <b>(b)(6)</b>		Date: <b>5/21/10</b>	Time: <b>1330</b>	
6		Relinquished By: <b>(b)(6)</b>		Date: <b>5/21/10</b>	Time: <b>1640</b>	
7		Relinquished By: <b>(3)</b>		Date:	Time:	Received By:
8		Relinquished By: <b>(4)</b>		Date:	Time:	Received By:

CONTAINER No.	SAMPLE TYPE	C = COMP	G = GRAB	PRESERVATIVES										ANALYSIS METHOD REQUIRED	REMARKS
				VOCs	SVOCs	PL BAs	TRH-Metals	TRH-DICD	TRH-G-ED	Asbestos	Lead	PCBs	PAHs		
5	G			X	X	X	X	X	X	X	X	X	X	X	*HexChrom identified above
7				X	X	X	X	X	X	X	X	X	X	X	Residential Comp
2				X	X	X	X	X	X	X	X	X	X	X	Simple shock analyzed for
2				X	X	X	X	X	X	X	X	X	X	X	HexChrom and V. Plac
1				X	X	X	X	X	X	X	X	X	X	X	inform EPH before signing!
3				X	X	X	X	X	X	X	X	X	X	X	
1				X	X	X	X	X	X	X	X	X	X	X	
1				X	X	X	X	X	X	X	X	X	X	X	
1				X	X	X	X	X	X	X	X	X	X	X	

Requested Turnaround Time		5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 12-Day <input type="checkbox"/> Other <input type="checkbox"/>		# of Coolers: <b>9</b>
Data Deliverables Required:		Emergency <input type="checkbox"/>		Custody Seal: <b>ABS</b>
Ice Present: <b>YES</b>		Temp: <b>5°C</b>		Shipping Carrier: <b>DIAL</b>
Special Instructions:				

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# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com  
email: info@phaseonline.com

## PHASE SEPARATION SCIENCE, INC.

1 CLIENT: <b>EPA</b>		OFFICE LOC: <b>Sparks, MD</b>		PSS Work Order #: <b>10052118</b>		PAGE <b>6</b> OF <b>8</b>	
PROJECT NO: <b>(b)(4) (b)(6)</b>		PHONE NO: <b>(410) 329-5114</b>		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe			
EMAIL: <b>(b)(4) (b)(6)</b>		FAX NO: <b>(410) 771-4204</b>					
PROJECT NAME: <b>NTCB</b>		PROJECT NO: <b>1462309</b>					
SITE LOCATION: <b>Port Deposit</b>		P.O. NO: <b>(b)(4) (b)(6)</b>					
SAMPLERS: <b>(b)(4) (b)(6)</b>							
2		3		4		5	
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	SAMPLE TYPE	C = COMP G = GRAB	REMARKS
50	*AOC-3-11/0-2	5/12/10	1200	S	6-		*Allylone
51	AOC-3-4/0-2		1100				distilled water
52	*AOC-3-16/0-2		1245				Residual Sample
53	*AOC-3-48/0-2		1035				Standard Sample
54	AOC-3-21/0-2	5/13/10	0810				Standard Sample
55	DP-AOC-3-10	5/12/10					Standard Sample
56	*AOC-3-42/0-2	5/12/10	1120				for Hex Chloride
57	*AOC-3-38/0-2	5/13/10	0830				Mandy P. P. P.
58	4A-70/2-4	5/10/10	0845				1-term test
59	R-50/2-4	5/10/10	0845				1-term test
Relinquished By: <b>(b)(4) (b)(6)</b>		Date: <b>5/21/10</b>	Time: <b>1720</b>		Requested Turnaround Time: <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other		
Relinquished By: <b>(b)(4) (b)(6)</b>		Date: <b>5/21/10</b>	Time: <b>1540</b>		Data Deliverables Required: Ice Present: <b>YES</b> Temp: <b>50°</b> Shipping Carrier: <b>DHL</b>		
Relinquished By: <b>(b)(4) (b)(6)</b>		Date: <b>5/21/10</b>	Time: <b>1540</b>		Special Instructions:		
Relinquished By: <b>(b)(4) (b)(6)</b>		Date: <b>5/21/10</b>	Time: <b>1540</b>		Special Instructions:		

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# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com

email: info@phaseonline.com

## PHASE SEPARATION SCIENCE, INC.

1 CLIENT: <b>EPA</b>		OFFICE LOC: <b>Park, MD</b>		PSS Work Order #: <b>10052118</b>		PAGE <b>7</b> OF <b>8</b>	
PROJECT MGR: <b>[Redacted]</b>		PHONE NO.: <b>(410) 329-5114</b>		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WM=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe			
EMAIL: <b>[Redacted]</b>		FAX NO.: <b>(410) 771-4204</b>					
PROJECT NAME: <b>N7CB</b>		PROJECT NO.: <b>1462307</b>					
SITE LOCATION: <b>Pent Depot</b>		P.O. NO.: <b>[Redacted]</b>					
SAMPLERS: <b>[Redacted]</b>							
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	CONTAINERS		
59	NR-11/2-4	5/4/10	0900	S	1 G		
60	NR-5/2-4	5/4/10	1330		1		
61	R-100/2-4	5/6/10	0855				
62	NR-44/2-4	5/13/10	1045				
63	NR-43/2-4	5/13/10	1020				
64	NR-81/2-4	5/4/10	0925				
65	R-33/2-4	5/4/10	1315				
66	IA-39/2-4	5/7/10	1440				
67	*AOC-341-102	5/12/10	1400				
68	*DOP-170C-3-11	5/12/10	-				
5 Relinquished By: <b>[Redacted]</b> Date: <b>5/21/10</b> Time: <b>1320</b>					Requested Turnaround Time <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other		
6 Relinquished By: <b>[Redacted]</b> Date: <b>5/21/10</b> Time: <b>1540</b>					# of Coolers: <b>9</b> Custody Seal: <b>ABS</b> Ice Present: <b>YES</b> Temp: <b>5°C</b> Shipping Carrier: <b>DIAL</b>		
Relinquished By: (3)					Special Instructions:		
Relinquished By: (4)							

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# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

## PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com  
email: info@phaseonline.com

1 CLIENT: EPA		OFFICE LOC: Sparks, MD		PSS Work Order #: 10052118		PAGE 8 OF 8	
PROJECT MGR: (b)(4)		PHONE NO.: (410) 324-5114		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe			
EMAIL: (b)(4)		FAX NO.: (410) 771-4204		Preservatives Used			
PROJECT NAME: NTCB		PROJECT NO.: 1467307		Analysis/Method Required			
SITE LOCATION: Part Deposit		P.O. NO.:		3			
SAMPLERS: (b)(4)							
2		3		4		5	
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	SAMPLE TYPE	C = COMP	G = GRAB
69	*AOC-3-18/0-2	5/11/10	1230	S	G		
70	AOC-3-34/0-2	5/12/10	1450				
71	*Dup-AOC-3-12						
72	*AOC-3-30/0-2		1305				
73	*AOC-3-13/0-2	5/11/10	0900				
74	*AOC-3-37/0-2	5/12/10	1245				
75	AOC-3-20/0-2		0930				
76	*AOC-3-28/0-2		1540				
77	*AOC-3-25/0-2	5/11/10	1000				
78	*AOC-3-30/0-2	5/12/10	1340				
3		4		5		6	
Relinquished By: (3)	Date	Time	Relinquished By: (3)	Date	Time	Relinquished By: (3)	Date
Relinquished By: (4)	Date	Time	Relinquished By: (4)	Date	Time	Relinquished By: (4)	Date
Requested Turnaround Time		Requested Turnaround Time		Requested Turnaround Time		Requested Turnaround Time	
5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Other <input type="checkbox"/>		5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Other <input type="checkbox"/>		5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Other <input type="checkbox"/>		5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Other <input type="checkbox"/>	
Data Deliverables Required:		Data Deliverables Required:		Data Deliverables Required:		Data Deliverables Required:	
Special Instructions:		Special Instructions:		Special Instructions:		Special Instructions:	
# of Coolers: 4		# of Coolers: 4		# of Coolers: 4		# of Coolers: 4	
Custody Seal: ABS		Custody Seal: ABS		Custody Seal: ABS		Custody Seal: ABS	
Ice Present: YES		Ice Present: YES		Ice Present: YES		Ice Present: YES	
Temp: 5°C		Temp: 5°C		Temp: 5°C		Temp: 5°C	
Shipping Carrier: DIAL		Shipping Carrier: DIAL		Shipping Carrier: DIAL		Shipping Carrier: DIAL	
REMARKS		REMARKS		REMARKS		REMARKS	
* If flame is identified above		* If flame is identified above		* If flame is identified above		* If flame is identified above	
Pesticide/Chlorophyll		Pesticide/Chlorophyll		Pesticide/Chlorophyll		Pesticide/Chlorophyll	
Standard Sample		Standard Sample		Standard Sample		Standard Sample	
Should be analyzed for Hex Chlorine		Should be analyzed for Hex Chlorine		Should be analyzed for Hex Chlorine		Should be analyzed for Hex Chlorine	
Manned V.D. board		Manned V.D. board		Manned V.D. board		Manned V.D. board	
1 of 10 - 1A		1 of 10 - 1A		1 of 10 - 1A		1 of 10 - 1A	
Before sampling!		Before sampling!		Before sampling!		Before sampling!	

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# Phase Separation Science, Inc

## Sample Receipt Checklist

Wo Number 10052118

Client Name ARGO Systems

Project Name NTCB

Project Number 1462309

Disposal Date: 06/25/2010

Received By (b) (4)

Date Received 05/21/2010 03:40:00 PM

Delivered By Dial Courier

Tracking No Not Applicable

Logged In By (b) (4)

### Shipping Container(s)

No. of Coolers 9

Custody Seals Absent

Seal Condition Absent

Ice Present

Temp (deg C) 5

Temp Blank Present No

### Documentation

COC agrees with sample labels? ☒ Yes or ☐ No

Sampler Name: (b) (4)

Chain of Custody (COC) ☒ Yes or ☐ No

MD DW Cert. No.: N/A

### Sample Container

Appropriate for Specified Analysis? Yes ☒ No ☐

Intact? ☒

Labeled and Labels Legible ☒

Total No. of Samples Received 79

Custody Seal(s) Absent

Custody Seal(s) Intact? Not Applicable

Seal(s) Signed / Dated Not Applicable

Total No. of Containers Received 197

### Preservation

	Yes	No	N/A
Metals (pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cyanides (pH>12)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sulfide (pH>9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOC, COD, Phenols (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved) (pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do VOA vials have zero headspace?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling.

\*Three extra containers in cooler not on COC. Labeled AOC-3-40/0-2 MS/MSD, sampled 5/12/10 @ 1410. Per (b) (4) placed containers on hold until further notice -rd 5/21/10

PER VOICEMAIL LEFT BY (b) (4) ON 5/22/10, PP METALS FOR EXTRA CONTAINERS RECEIVED IN COOLER NOT ON COC. -RD 5/24/10

Samples Inspected/Checklist Completed By: (b) (4)

Date: 5/21/10

PM Review and Approval: (b) (4)

Date: 5/24/10

Printed: 05/21/2010 08 23 PM



# Analytical Report for

## ARGO Systems

**Certificate of Analysis No.: 10052714**

**Project Manager:** (b) (4)

**Project Name :** Port Deposit

**Project Location:** NTCB



**June 24, 2010**

**Phase Separation Science, Inc.**

**6630 Baltimore National Pike**

**Baltimore, MD 21228**

**Phone: (410) 747-8770**

**Fax: (410) 788-8723**

OFFICES:  
6630 BALTIMORE NATIONAL  
PIKE  
ROUTE 40 WEST  
BALTIMORE, MD 21228  
410-747-8770  
800-932-9047

# PHASE SEPARATION SCIENCE, INC.



June 24, 2010

(b) (4)

**ARGO Systems**

1403 Madison Park Dr., Ste. 205  
Glen Burnie, MD 21061

Reference: PSS Work Order No: **10052714**

Project Name : Port Deposit

Project Location: NTCB

Dear (b) (4) :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10052714**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on July 1, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or [info@phaseonline.com](mailto:info@phaseonline.com).

(b) (4)

Laboratory Manager





## Case Narrative Summary

Client Name: ARGO Systems

Project Name: Port Deposit

Project ID: N/A

Work Order Number: 10052714

The following samples were received under chain of custody by Phase Separation Science (PSS) on 05/27/2010 at 02:35 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10052714-001	AOC-45a-7	SOIL	05/13/2010 11:30
10052714-002	AOC-45a-17	SOIL	05/13/2010 11:00
10052714-003	AOC-45a-25	SOIL	05/13/2010 14:00
10052714-004	AOC-45a-28	SOIL	05/13/2010 11:40
10052714-005	AOC-45a-33	SOIL	05/14/2010 10:35
10052714-006	AOC-45a-39	SOIL	05/13/2010 13:00
10052714-007	AOC-45a-44	SOIL	05/14/2010 11:15
10052714-008	AOC-45a-47	SOIL	05/14/2010 10:45
10052714-009	AOC-45a-51	SOIL	05/13/2010 13:30
10052714-010	AOC-45a-54	SOIL	05/13/2010 11:50
10052714-011	AOC-45a-58	SOIL	05/14/2010 11:05
10052714-012	AOC-45a-69	SOIL	05/13/2010 14:15
10052714-013	AOC-45a-76	SOIL	05/13/2010 13:15
10052714-014	AOC-45a-81	SOIL	05/14/2010 11:35
10052714-015	AOC-45a-87	SOIL	05/14/2010 09:35
10052714-016	AOC-45a-89	SOIL	05/13/2010 14:45
10052714-017	AOC-45a-97	SOIL	05/14/2010 09:20
10052714-018	AOC-45a-103	SOIL	05/14/2010 09:50
10052714-019	AOC-45a-114	SOIL	05/14/2010 09:00
10052714-020	AOC-45a-120	SOIL	05/14/2010 10:05
10052714-021	AOC-1a(689)-1	SOIL	05/13/2010 11:15
10052714-022	AOC-1a(689)-3 MS/MSD	SOIL	05/13/2010 11:05
10052714-023	AOC-1a(689)-5	SOIL	05/13/2010 11:00
10052714-024	AOC-1a(689)-7	SOIL	05/13/2010 11:25
10052714-025	AOC-1a(689)-9	SOIL	05/13/2010 11:40
10052714-026	AOC-45c-3	SOIL	05/17/2010 10:05
10052714-027	AOC-45c-9	SOIL	05/17/2010 09:55
10052714-028	AOC-45c-13 MS/MSD	SOIL	05/17/2010 10:20
10052714-029	AOC-45c-16	SOIL	05/17/2010 09:40
10052714-030	AOC-45c-23	SOIL	05/17/2010 09:25
10052714-031	AOC-45c-25	SOIL	05/17/2010 10:40
10052714-032	AOC-45c-27	SOIL	05/17/2010 10:50
10052714-033	AOC-45c-39	SOIL	05/17/2010 11:05
10052714-034	AOC-45c-41 MS/MSD	SOIL	05/17/2010 11:20
10052714-035	AOC-45c-43	SOIL	05/17/2010 11:40
10052714-036	F-17	SOIL	05/26/2010 08:25
10052714-037	F-55	SOIL	05/26/2010 08:50
10052714-038	TG10-6	SOIL	05/26/2010 09:05
10052714-039	TG10-10	SOIL	05/26/2010 09:20
10052714-040	TG10-11	SOIL	05/26/2010 09:15
10052714-041	TG10-2	SOIL	05/26/2010 09:10
10052714-042	TG10-14	SOIL	05/26/2010 09:30
10052714-043	TG10-9	SOIL	05/26/2010 09:35



## Case Narrative Summary

Client Name: ARGO Systems

Project Name: Port Deposit

Project ID: N/A

Work Order Number: 10052714

10052714-044	TG10-4 MS/MSD	SOIL	05/26/2010 09:40
10052714-045	F-47	SOIL	05/26/2010 09:50
10052714-046	TG8-14	SOIL	05/26/2010 10:15
10052714-047	TG8-13	SOIL	05/26/2010 10:20
10052714-048	TG8-8	SOIL	05/26/2010 10:30
10052714-049	TG8-9	SOIL	05/26/2010 10:35
10052714-050	TG8-4	SOIL	05/26/2010 10:40
10052714-051	TG8-5	SOIL	05/26/2010 10:45
10052714-052	TG8-10	SOIL	05/26/2010 10:50
10052714-053	F-40	SOIL	05/26/2010 11:00
10052714-054	TG9-3	SOIL	05/26/2010 11:10
10052714-055	TG9-2	SOIL	05/26/2010 11:15
10052714-056	F-27	SOIL	05/26/2010 13:20
10052714-057	F-21	SOIL	05/26/2010 13:35
10052714-058	F-16	SOIL	05/26/2010 13:45
10052714-059	F-30	SOIL	05/26/2010 14:10
10052714-060	F-51	SOIL	05/26/2010 14:20
10052714-061	F-58 MS/MSD	SOIL	05/26/2010 14:40
10052714-062	F-65	SOIL	05/26/2010 15:00
10052714-063	DUP-AOC1a(689)-01	SOIL	05/13/2010 00:00
10052714-064	DUP-AOC45a-03	SOIL	05/14/2010 00:00
10052714-065	DUP-AOC45a-04	SOIL	05/14/2010 00:00
10052714-066	DUP-GC-10	SOIL	05/26/2010 00:00
10052714-067	DUP-GC-11	SOIL	05/26/2010 00:00
10052714-068	DUP-GC-12	SOIL	05/26/2010 00:00
10052714-069	TG4-8	SOIL	05/27/2010 08:20
10052714-070	TG4-14	SOIL	05/27/2010 08:30
10052714-071	TG12-3	SOIL	05/27/2010 10:35
10052714-072	EB-13	WATER	05/27/2010 11:30
10052714-073	DUP-GC-13	SOIL	05/27/2010 00:00
10052714-074	AOC 1c-8	SOIL	05/10/2010 13:10
10052714-075	AOC 1c-17	SOIL	05/10/2010 12:55
10052714-076	AOC 1c-25	SOIL	05/10/2010 11:30
10052714-077	FR-104-1/0-2	SOIL	05/13/2010 13:30
10052714-078	FR-104-3/0-2	SOIL	05/13/2010 13:40
10052714-079	FR-104-6/0-2	SOIL	05/13/2010 15:05
10052714-080	FR-104-9/0-2	SOIL	05/13/2010 14:25
10052714-081	TG4-7	SOIL	05/27/2010 08:35
10052714-082	TG4-13	SOIL	05/27/2010 08:40
10052714-083	TG4-6	SOIL	05/27/2010 08:45
10052714-084	TG4-12	SOIL	05/27/2010 08:50
10052714-085	TG4-5	SOIL	05/27/2010 09:05
10052714-086	TG4-11	SOIL	05/27/2010 09:10
10052714-087	F-69	SOIL	05/27/2010 09:30
10052714-088	F-76	SOIL	05/27/2010 09:50



# Case Narrative Summary

Client Name: ARGO Systems

Project Name: Port Deposit

Project ID: N/A

Work Order Number: 10052714

10052714-089	F-8	SOIL	05/27/2010 10:05
10052714-090	TG12-2	SOIL	05/27/2010 10:30
10052714-091	FR-104-10/0-2	SOIL	05/13/2010 14:40
10052714-092	FR-104-5/2-4	SOIL	05/13/2010 13:50

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

## Narrative Comments:

Effecting metals samples 34-92, CCV failure for Mercury at 81%, 85%, 86%, 84%, Thallium 84%, 85%, 86%, and Lead 89%, 88%, 89%; limits are 90-110%. A CCV failure for Copper of 111% recovery; limits 90-110%, effects samples 13-26 and 28. CCV failures for Beryllium at 79%, 78%, 74% and 70%; limits are 90-110%, effecting samples 1-12 and 22.

## Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

## Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

OFFICES:  
6630 BALTIMORE NATIONAL PIKE  
ROUTE 40 WEST  
BALTIMORE, MD 21228  
410-747-8770  
800-932-9047  
FAX 410-788-8723

# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10052714

**ARGO Systems, Glen Burnie, MD**

June 24, 2010

Project Name: Port Deposit

Project Location: NTCB

<b>Sample ID: EB-13</b>	<b>Date/Time Sampled: 05/27/2010 11:30</b>	<b>PSS Sample ID: 10052714-072</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 05/27/2010 14:35</b>	

VCP Arsenic

Analytical Method: SW846 6020A

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Arsenic	ND	ug/L	1.0		1	0.5	06/03/10	06/03/10 15:44	1034

VCP Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aldrin	ND	ug/L	0.04		1		06/03/00	06/03/00 13:20	1029
alpha-BHC	ND	ug/L	0.04		1		06/03/00	06/03/00 13:20	1029
beta-BHC	ND	ug/L	0.04		1		06/03/00	06/03/00 13:20	1029
delta-BHC	ND	ug/L	0.08		1		06/03/00	06/03/00 13:20	1029
alpha-Chlordane	ND	ug/L	0.08		1		06/03/00	06/03/00 13:20	1029
gamma-Chlordane	ND	ug/L	0.08		1		06/03/00	06/03/00 13:20	1029
4,4-DDD	ND	ug/L	0.08		1		06/03/00	06/03/00 13:20	1029
4,4-DDE	ND	ug/L	0.08		1		06/03/00	06/03/00 13:20	1029
4,4-DDT	ND	ug/L	0.08		1		06/03/00	06/03/00 13:20	1029
Dieldrin	ND	ug/L	0.04		1		06/03/00	06/03/00 13:20	1029
Endosulfan I	ND	ug/L	0.08		1		06/03/00	06/03/00 13:20	1029
Endosulfan II	ND	ug/L	0.08		1		06/03/00	06/03/00 13:20	1029
Endosulfan sulfate	ND	ug/L	0.08		1		06/03/00	06/03/00 13:20	1029
Endrin	ND	ug/L	0.08		1		06/03/00	06/03/00 13:20	1029
Endrin aldehyde	ND	ug/L	0.08		1		06/03/00	06/03/00 13:20	1029
Endrin ketone	ND	ug/L	0.08		1		06/03/00	06/03/00 13:20	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1		06/03/00	06/03/00 13:20	1029
Heptachlor	ND	ug/L	0.08		1		06/03/00	06/03/00 13:20	1029
Heptachlor epoxide	ND	ug/L	0.08		1		06/03/00	06/03/00 13:20	1029
Methoxychlor	ND	ug/L	0.08		1		06/03/00	06/03/00 13:20	1029
Toxaphene	ND	ug/L	2		1	1	06/03/00	06/03/00 13:20	1029



# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com  
email: info@phaseonline.com

## PHASE SEPARATION SCIENCE, INC.

1 CLIENT: <b>EPA</b>		OFFICE LOC: <b>Sparks, MD</b>		PSS Work Order #: <b>10052714</b>		PAGE <b>1</b> OF <b>10</b>	
PROJECT MGR: <b>(b)(6)</b>		PHONE NO.: <b>(410) 329-5114</b>		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe			
EMAIL: <b>(b)(6) Dearest, Cornfax No.</b>		PROJECT NO.: <b>(410) 771-4204</b>		No. CONTAINERS			
PROJECT NAME: <b>Port Deposit</b>		P.O. NO.: <b>(b)(6)</b>		SAMPLERS:			
SITE LOCATION: <b>NTCB</b>		DATE		TIME		MATRIX (See Codes)	
SAMPLERS:		SAMPLE IDENTIFICATION		DATE		TIME	
LAB NO.		SAMPLE TYPE		C = COMP		G = GRAB	
1 - AOC-45a-7 *		5/13/10		1130		S	
2 - AOC-45a-17 *		5/13/10		1100		S	
3 - AOC-45a-25 *		5/13/10		1400		S	
4 - AOC-45a-28 *		5/13/10		1140		S	
5 - AOC-45a-33 *		5/14/10		1035		S	
6 - AOC-45a-39 *		5/13/10		1300		S	
7 - AOC-45a-44 *		5/14/10		1115		S	
8 - AOC-45a-47 *		5/14/10		1045		S	
9 - AOC-45a-51 *		5/14/10		1320		S	
10 - AOC-45a-54 *		5/14/10		1150		S	
5 Relinquished By: <b>(b)(6)</b>		Date		Time		Received By: <b>(b)(6)</b>	
Relinquished By: <b>(b)(6)</b>		Date		Time		Received By: <b>(b)(6)</b>	
Relinquished By: (3)		Date		Time		Received By:	
Relinquished By: (4)		Date		Time		Received By:	

PRESERVATIVES USED		ANALYSIS METHOD REQUIRED		REMARKS	
PRL Metals		③		* If Chrome is identified above Residual Cleanup Standard Sample should be analyzed for Hex Chrome. Mn and V. Please inform EA before running!	

Requested Turnaround Time		# of Coolers: <b>4</b>	
<input type="checkbox"/> 5-Day	<input type="checkbox"/> 3-Day	Custody Seal: <b>ABS</b>	
<input type="checkbox"/> Next Day	<input checked="" type="checkbox"/> Emergency	Ice Present: <b>YES</b> Temp: <b>10°C</b>	
Data Deliverables Required:		Shipping Carrier: <b>DIAL</b>	
Special Instructions:			





# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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## PHASE SEPARATION SCIENCE, INC.

1		CLIENT: EPA	OFFICE LOC: Sparks, MD	PSS Work Order #: 10052714	PAGE: 2 OF 10
PROJECT MGR: [REDACTED]		PHONE NO.: (410) 329-5114	Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe		
EMAIL: [REDACTED]		FAX NO.: (410) 771-4204			
PROJECT NAME: NTCB		PROJECT NO.: 1462307			
SITE LOCATION: Port Deposit		P.O. NO.: [REDACTED]			
SAMPLERS: [REDACTED]					
2	LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)
	11	AOC-45a-58 *	5/14/10	1105	5
	12	AOC-45a-69 *	5/13/10	1415	
	13	AOC-45a-76 *	5/14/10	1315	
	14	AOC-45a-81 *	5/14/10	1135	
	15	AOC-45a-87 *	5/14/10	0935	
	16	AOC-45a-89 *	5/13/10	1445	
	17	AOC-45a-97 *	5/14/10	0920	
	18	AOC-45a-103 *	5/14/10	0950	
	19	AOC-45a-114 *	5/14/10	0900	
5	20	AOC-45a-120 *	5/14/10	1005	
Relinquished By: [REDACTED]		Date: 5/27/10	Time: 1305	Received By: [REDACTED]	Received By: [REDACTED]
Relinquished By: [REDACTED]		Date: 5/27/10	Time: 1435	Received By: [REDACTED]	Received By: [REDACTED]
Relinquished By: (3)		Date:	Time:	Received By:	Received By:
Relinquished By: (4)		Date:	Time:	Received By:	Received By:

3		SAMPLE TYPE	C = COMP	G = GRAB	REMARKS
CONTAINERS					
No.					
1		6			* HChrom. is identified above
					Residual Chlorine
					Standard sample
					Should be analyzed
					for HChrom. Mna & V. Please
					Inform EA before running!

4		Requested Turnaround Time	# of Coolers: 4
		<input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Other	
		<input type="checkbox"/> Next Day <input type="checkbox"/> Emergency	
		Data Deliverables Required:	
		Ice Present: ABS Temp: 10°C	
		Shipping Carrier: DIAL	
		Special Instructions:	

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723  
The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.





# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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## PHASE SEPARATION SCIENCE, INC.

1 CLIENT: <b>EPA</b>		OFFICE LOC. <b>Sparks, MD</b>		PSS Work Order # <b>10052714</b>		PAGE <b>3</b> OF <b>10</b>					
PROJECT MGR <b>[REDACTED]</b>		PHONE NO.: <b>(410) 329-5114</b>		Matrix Codes: SW-Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe							
EMAIL: <b>[REDACTED]</b>		FAX NO.: <b>(410) 771-4204</b>		Preservatives Used: <b>PPR Metal 6</b>							
PROJECT NAME: <b>NTCB</b>		PROJECT NO.: <b>146239</b>		SAMPLE TYPE: <b>C = COMP</b>							
SITE LOCATION: <b>Part Deposit</b>		P.O. NO.: <b>[REDACTED]</b>		G = GRAB							
SAMPLERS: <b>[REDACTED]</b>											
2		LAB NO.		SAMPLE IDENTIFICATION		DATE		TIME		MATRIX (See Codes)	
21		* AOC 1a (689)-1		5/13/10		1115		5		1	
22		* AOC 1a (689)-3		5/13/10		1105		3		3	
23		* AOC 1a (689)-5		5/13/10		1100		1		1	
24		* AOC 1a (689)-7		5/13/10		1125		1		1	
25		* AOC 1a (689)-9		5/13/10		1140		1		1	
26		* AOC 45c-3		5/17/10		1005		1		1	
27		* AOC 45c-9		5/17/10		0955		1		1	
28		* AOC 45c-13		5/17/10		1020		1		1	
29		* AOC 45c-16		5/17/10		0940		1		1	
30		* AOC 45c-23		5/17/10		0925		1		1	
5		Relinquished By: <b>[REDACTED]</b>		Date: <b>5/27/10</b>		Time: <b>1305</b>		Received By: <b>[REDACTED]</b>		Time: <b>1435</b>	
		Relinquished By: <b>[REDACTED]</b>		Date: <b>5/27/10</b>		Time: <b>1435</b>		Received By: <b>[REDACTED]</b>		Time: <b>1435</b>	
		Relinquished By: <b>[REDACTED]</b>		Date: <b>5/27/10</b>		Time: <b>1435</b>		Received By: <b>[REDACTED]</b>		Time: <b>1435</b>	
		Relinquished By: <b>[REDACTED]</b>		Date: <b>5/27/10</b>		Time: <b>1435</b>		Received By: <b>[REDACTED]</b>		Time: <b>1435</b>	

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# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com  
email: info@phaseonline.com

## PHASE SEPARATION SCIENCE, INC.

1 CLIENT: <b>EPA</b>		OFFICE LOC: <b>Sparks, MD</b>		PSS Work Order #: <b>10052714</b>		PAGE <b>4</b> OF <b>19</b>	
PROJECT MGR: <b>(b)(6)</b>		PHONE NO.: <b>(410) 329-5114</b>		Matrix Codes: DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe			
EMAIL: <b>(b)(6)</b>		FAX NO.: <b>(410) 771-4204</b>		Preservatives Used: <b>PP2 Metals</b>			
PROJECT NAME: <b>WTCB</b>		PROJECT NO.: <b>1462309</b>		Analysis Method Required: <b>(3)</b>			
SITE LOCATION: <b>Port Deposit</b>		P.O. NO.: <b>(b)(6)</b>		SAMPLE TYPE: <b>C = COMP</b>			
SAMPLERS: <b>(b)(6)</b>				G = GRAB			
2		3		4		5	
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	CONTAINER NO.	ANALYSIS METHOD REQUIRED	REMARKS
31	A0452-25	5/17/10	1040	S	1	X	Identified as
32	A0452-27		1050		2	X	Residential Cleanup
33	A0452-39		1105		3	X	Standard sample
34	A0452-41 MS/MSD		1120		4	X	Should be analyzed
35	A0452-43		1140		5	X	for Hex Chlora
36	F-17	5/20/10	0825			X	Mn and V. Please
37	F-55		0850			X	Intermittent
38	T6-10-6		0905			X	before running
39	T6-10-10		0920			X	
40	T6-10-11		0915			X	
5 Relinquished By: <b>(b)(6)</b>		Date: <b>5/20/10</b>	Time: <b>1305</b>	Requested Turnaround Time: <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> Next Day <input checked="" type="checkbox"/> Emergency <input type="checkbox"/> Other		# of Coolers: <b>4</b>	
Relinquished By: <b>(b)(6)</b>		Date: <b>5/27/10</b>	Time: <b>1430</b>	Custody Seal: <b>ABS</b>		Ice Present: <b>YES</b> Temp: <b>10°C</b>	
Relinquished By: <b>(b)(6)</b>		Date: <b>5/27/10</b>	Time: <b>1430</b>	Data Deliverables Required:		Shipping Carrier: <b>DIAL</b>	
Relinquished By: <b>(b)(6)</b>		Date: <b>5/27/10</b>	Time: <b>1430</b>	Special Instructions:			
Relinquished By: <b>(b)(6)</b>		Date: <b>5/27/10</b>	Time: <b>1430</b>				

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723  
The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com  
email: info@phaseonline.com

1 CLIENT: EPA		OFFICE LOC. Sparks, MD		PSS Work Order #: 10052714		PAGE 5 OF 10	
PROJECT MGR: (b) (4)		PHONE NO.: (410) 329-5114		Matrix Codes: SW-Surface Wtr DW-Drinking Wtr GW-Ground Wtr WW-Waste Wtr O-Oil S-Soil WL-Waste Liquid WS-Waste Solid W-Wipe			
EMAIL: (b) (4)		FAX NO.: (410) 771-4204		Preservatives Used: (b) (4)			
PROJECT NAME: NTCB		PROJECT NO.: 146289		SAMPLE TYPE: C = COMP G = GRAB			
SITE LOCATION: Part Deposit		P.O. NO.: (b) (4)		CONTAINERS			
SAMPLERS: (b) (4)							
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	SAMPLE TYPE	ANALYSIS/Method Required	REMARKS
41	T6-10-2	5/24/10	0910	S	C	X	
42	T6-10-14		0930			X	
43	T6-10-9		0935			X	
44	T6-10-4 MS/MSD		0940			X	
45	F-47		0950			X	
46	T6-8-14		1015			X	
47	T6-8-13		1020			X	
48	T6-8-8		1030			X	
49	T6-8-9		1035			X	
50	T6-8-4		1040			X	
Relinquished By: (b) (4)		Date: 5/27/10	Time: 1305	Requested Turnaround Time: 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input checked="" type="checkbox"/> Other <input type="checkbox"/>			
Relinquished By: (b) (4)		Date: 5/27/10	Time: 1435	Data Deliverables Required: Ice Present: PPS Temp: 10C			
Relinquished By: (3)		Date:	Time:	Shipping Carrier: DIAL			
Relinquished By: (4)		Date:	Time:	Special Instructions:			

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723  
The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1		CLIENT: EPA		OFFICE LOC. Sparks, MD		PSS Work Order # 005271		PAGE 0 OF 10	
PROJECT MGR		PHONE NO.: (410) 329-5114		FAX NO.: (410) 771-4204		PROJECT NO.: 1462309		P.O. NO.:	
EMAIL: phase@ps-science.com		PROJECT NAME: NTCB		SITE LOCATION: Port Deposit		SAMPLERS: (4) (5)			
LAB NO.		SAMPLE IDENTIFICATION		DATE		TIME		MATRIX (See Codes)	
61		T-8.5		5/24/10		1045		S	
62		T-8.10		5/24/10		1050		S	
63		F-40		5/24/10		1100		S	
64		T-9.3		5/24/10		1110		S	
65		T-9.2		5/24/10		1115		S	
66		F-27		5/24/10		1320		S	
67		F-21		5/24/10		1335		S	
68		F-16		5/24/10		1345		S	
69		F-30		5/24/10		1410		S	
70		F-51		5/24/10		1420		S	
Relinquished By: (4) (5)		Date: 5/24/10		Time: 1305		Received By: (4) (5)		Date: 5/24/10	
Relinquished By: (2) (4) (5)		Date: 5/24/10		Time: 1435		Received By: (4) (5)		Date: 5/24/10	
Relinquished By: (3)		Date:		Time:		Received By:		Date:	
Relinquished By: (4)		Date:		Time:		Received By:		Date:	

2		3		4		5		6	
LAB NO.		SAMPLE TYPE		PRESERVATIVES USED		ANALYSIS METHOD REQUIRED		REMARKS	
61		C		X		3		Pesticides	
62		C		X		3			
63		C		X		3			
64		C		X		3			
65		C		X		3			
66		C		X		3			
67		C		X		3			
68		C		X		3			
69		C		X		3			
70		C		X		3			
71		C		X		3			
72		C		X		3			
73		C		X		3			
74		C		X		3			
75		C		X		3			
76		C		X		3			
77		C		X		3			
78		C		X		3			
79		C		X		3			
80		C		X		3			
81		C		X		3			
82		C		X		3			
83		C		X		3			
84		C		X		3			
85		C		X		3			
86		C		X		3			
87		C		X		3			
88		C		X		3			
89		C		X		3			
90		C		X		3			
91		C		X		3			
92		C		X		3			
93		C		X		3			
94		C		X		3			
95		C		X		3			
96		C		X		3			
97		C		X		3			
98		C		X		3			
99		C		X		3			
100		C		X		3			
101		C		X		3			
102		C		X		3			
103		C		X		3			
104		C		X		3			
105		C		X		3			
106		C		X		3			
107		C		X		3			
108		C		X		3			
109		C		X		3			
110		C		X		3			
111		C		X		3			
112		C		X		3			
113		C		X		3			
114		C		X		3			
115		C		X		3			
116		C		X		3			
117		C		X		3			
118		C		X		3			
119		C		X		3			
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127		C		X		3			
128		C		X		3			
129		C		X		3			
130		C		X		3			
131		C		X		3			
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134		C		X		3			
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140		C		X		3			
141		C		X		3			
142		C		X		3			
143		C		X		3			
144		C		X		3			
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146		C		X		3			
147		C		X		3			
148		C		X		3			
149		C		X		3			
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153		C		X		3			
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155		C		X		3			
156		C		X		3			
157		C		X		3			
158		C		X		3			
159		C		X		3			
160		C		X		3			
161		C		X		3			
162		C		X		3			
163		C		X		3			
164		C		X		3			
165		C		X		3			
166		C		X		3			
167		C		X		3			
168		C		X		3			
169		C		X		3			
170		C		X		3			
171		C		X		3			
172		C		X		3			
173		C		X		3			
174		C		X		3			
175		C		X		3			
176		C		X		3			
177		C		X		3			
178		C		X		3			
179		C		X		3			
180		C		X		3			
181		C		X		3			
182		C		X		3			
183		C		X		3			
184		C		X		3			
185		C		X		3			
186		C		X		3			
187		C		X		3			
188		C		X		3			
189		C		X		3			
190		C		X		3			
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194		C		X		3			
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210		C		X		3			
211		C		X		3			
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213		C		X		3			
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219		C		X		3			
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226		C		X		3			
227		C		X		3			
228		C		X		3			
229		C		X		3			
230		C		X		3			
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239		C		X		3			
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245		C		X		3			
246		C		X		3			
247		C		X		3			
248		C		X		3			
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250		C		X		3			
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252		C		X		3			
253		C		X		3			
254		C		X		3			
255		C		X		3			
256		C		X		3			
257		C		X		3			
258		C		X		3			
259		C		X		3			
260		C		X		3			
261		C		X		3			
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267		C		X		3			
268		C		X		3			
269		C		X		3			
270		C		X		3			
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272		C		X		3			
273		C		X		3			
274		C		X		3			
275		C		X		3			
276		C		X		3			
277		C		X		3			
278		C		X		3			
279		C		X		3			
280		C		X		3			
281		C		X		3			



# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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**email: info@phaseonline.com**

# PHASE SEPARATION SCIENCE, INC.

1

CLIENT: EPA

OFFICE LOC. Sparks, MD

PROJECT MGR

PHONE NO.: (410) 329-5714

EMAIL: (410) 329-5714

PROJECT NO: 1462309

SITE LOCATION: Port Deposit

P.O. NO: (410) 329-5714

SAMPLERS: (410) 329-5714

2

LAB NO	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)
601	F-58 MB (MAD)	5/26/10	1440	S
602	F-65	↓	1500	↓
603	Dp-AOC45a-01	5/13/10	-	↓
604	Dp-AOC45a-03	5/14/10	-	↓
605	Dp-AOC45a-04	↓	-	↓
606	Dp-GC-10	5/24/10	-	↓
607	Dp-GC-11	↓	-	↓
608	Dp-GC-12	↓	-	↓
609	TG-4-8	5/27/10	0830	↓
701	TG-4-14	↓	0830	↓

3

LAB NO	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)
601	F-58 MB (MAD)	5/26/10	1440	S
602	F-65	↓	1500	↓
603	Dp-AOC45a-01	5/13/10	-	↓
604	Dp-AOC45a-03	5/14/10	-	↓
605	Dp-AOC45a-04	↓	-	↓
606	Dp-GC-10	5/24/10	-	↓
607	Dp-GC-11	↓	-	↓
608	Dp-GC-12	↓	-	↓
609	TG-4-8	5/27/10	0830	↓
701	TG-4-14	↓	0830	↓

4

LAB NO	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)
601	F-58 MB (MAD)	5/26/10	1440	S
602	F-65	↓	1500	↓
603	Dp-AOC45a-01	5/13/10	-	↓
604	Dp-AOC45a-03	5/14/10	-	↓
605	Dp-AOC45a-04	↓	-	↓
606	Dp-GC-10	5/24/10	-	↓
607	Dp-GC-11	↓	-	↓
608	Dp-GC-12	↓	-	↓
609	TG-4-8	5/27/10	0830	↓
701	TG-4-14	↓	0830	↓

5

LAB NO	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)
601	F-58 MB (MAD)	5/26/10	1440	S
602	F-65	↓	1500	↓
603	Dp-AOC45a-01	5/13/10	-	↓
604	Dp-AOC45a-03	5/14/10	-	↓
605	Dp-AOC45a-04	↓	-	↓
606	Dp-GC-10	5/24/10	-	↓
607	Dp-GC-11	↓	-	↓
608	Dp-GC-12	↓	-	↓
609	TG-4-8	5/27/10	0830	↓
701	TG-4-14	↓	0830	↓

6

LAB NO	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)
601	F-58 MB (MAD)	5/26/10	1440	S
602	F-65	↓	1500	↓
603	Dp-AOC45a-01	5/13/10	-	↓
604	Dp-AOC45a-03	5/14/10	-	↓
605	Dp-AOC45a-04	↓	-	↓
606	Dp-GC-10	5/24/10	-	↓
607	Dp-GC-11	↓	-	↓
608	Dp-GC-12	↓	-	↓
609	TG-4-8	5/27/10	0830	↓
701	TG-4-14	↓	0830	↓

7

LAB NO	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)
601	F-58 MB (MAD)	5/26/10	1440	S
602	F-65	↓	1500	↓
603	Dp-AOC45a-01	5/13/10	-	↓
604	Dp-AOC45a-03	5/14/10	-	↓
605	Dp-AOC45a-04	↓	-	↓
606	Dp-GC-10	5/24/10	-	↓
607	Dp-GC-11	↓	-	↓
608	Dp-GC-12	↓	-	↓
609	TG-4-8	5/27/10	0830	↓
701	TG-4-14	↓	0830	↓

8

LAB NO	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)
601	F-58 MB (MAD)	5/26/10	1440	S
602	F-65	↓	1500	↓
603	Dp-AOC45a-01	5/13/10	-	↓
604	Dp-AOC45a-03	5/14/10	-	↓
605	Dp-AOC45a-04	↓	-	↓
606	Dp-GC-10	5/24/10	-	↓
607	Dp-GC-11	↓	-	↓
608	Dp-GC-12	↓	-	↓
609	TG-4-8	5/27/10	0830	↓
701	TG-4-14	↓	0830	↓

9

LAB NO	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)
601	F-58 MB (MAD)	5/26/10	1440	S
602	F-65	↓	1500	↓
603	Dp-AOC45a-01	5/13/10	-	↓
604	Dp-AOC45a-03	5/14/10	-	↓
605	Dp-AOC45a-04	↓		

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# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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**email: info@phaseonline.com**

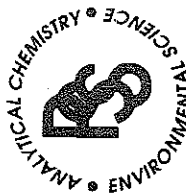
**PHASE SEPARATION SCIENCE, INC.**

[illegible]

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# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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email: info@phaseonline.com

## PHASE SEPARATION SCIENCE, INC.

1		CLIENT: <b>EPA</b>		OFFICE LOC. <b>Sparks, MD</b>		PSS Work Order #: <b>10052714</b>		PAGE <b>9</b> OF <b>10</b>	
PROJECT MGR: <b>[REDACTED]</b>		PHONE NO.: <b>(410) 329-5114</b>		MATRIX CODES: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W= Wipe					
EMAIL: <b>[REDACTED]</b>		PROJECT NAME: <b>NTCB</b>		PROJECT NO.: <b>1462359</b>					
SITE LOCATION: <b>Port Deposit</b>		P.O. NO.: <b>[REDACTED]</b>							
SAMPLERS: <b>[REDACTED]</b>									
2		3		4		5		6	
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	No.	C O N T A I N E R S	SAMPLE TYPE C = COMP G = GRAB	Preservatives Used	Analysis/Method Required
81	T64-7	5/27/10	0835	S	1	G			
82	T64-13		0840						
83	T64-6		0845						
84	T64-12		0850						
85	T64-5		0905						
86	T64-11		0910						
87	F-69		0930						
88	F-76		0950						
89	F-8		1005						
90	T64-2		1030						
Relinquished By: <b>[REDACTED]</b>		Date	Time	Received By: <b>[REDACTED]</b>					
5/27/10		1305							
Relinquished By: <b>[REDACTED]</b>		Date	Time	Received By: <b>[REDACTED]</b>					
5-27-10		1435							
Relinquished By: <b>[REDACTED]</b>		Date	Time	Received By:					
Relinquished By: (3)		Date	Time	Received By:					
Relinquished By: (4)		Date	Time	Received By:					
Requested Turnaround Time		Requested Turnaround Time		Requested Turnaround Time		Requested Turnaround Time		Requested Turnaround Time	
5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Other <input checked="" type="checkbox"/>		5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Other <input checked="" type="checkbox"/>		5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Other <input checked="" type="checkbox"/>		5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Other <input checked="" type="checkbox"/>		5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Other <input checked="" type="checkbox"/>	
Data Deliverables Required:		Data Deliverables Required:		Data Deliverables Required:		Data Deliverables Required:		Data Deliverables Required:	
# of Coolers: <b>4</b>		# of Coolers: <b>4</b>		# of Coolers: <b>4</b>		# of Coolers: <b>4</b>		# of Coolers: <b>4</b>	
Custody Seal: <b>ABS</b>		Custody Seal: <b>ABS</b>		Custody Seal: <b>ABS</b>		Custody Seal: <b>ABS</b>		Custody Seal: <b>ABS</b>	
Ice Present: <b>YES</b>		Ice Present: <b>YES</b>		Ice Present: <b>YES</b>		Ice Present: <b>YES</b>		Ice Present: <b>YES</b>	
Shipping Carrier: <b>DIAL</b>		Shipping Carrier: <b>DIAL</b>		Shipping Carrier: <b>DIAL</b>		Shipping Carrier: <b>DIAL</b>		Shipping Carrier: <b>DIAL</b>	
Special Instructions:		Special Instructions:		Special Instructions:		Special Instructions:		Special Instructions:	

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**email: info@phaseonline.com**

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# Phase Separation Science, Inc

## Sample Receipt Checklist

Wo Number 10052714 Received By (b) (4)  
Client Name ARGO Systems Date Received 05/27/2010 02:35:00 PM  
Project Name Port Deposit Delivered By Dial Courier  
Project Number N/A Tracking No Not Applicable  
Disposal Date: 07/01/2010 Logged In By (b) (4)

### Shipping Container(s)

No. of Coolers	4	Ice	Present
Custody Seals	Absent	Temp (deg C)	1
Seal Condition	Absent	Temp Blank Present	No

### Documentation

COC agrees with sample labels? ☒ Yes or ☐ No Sampler Name (b) (4)  
Chain of Custody (COC) ☒ Yes or ☐ No MD DW Cert. No: N/A

### Sample Container

Appropriate for Specified Analysis? Yes ☒ No ☐ Custody Seal(s) Absent  
Intact? ☒ Custody Seal(s) Intact? Not Applicable  
Labeled and Labels Legible ☒ Seal(s) Signed / Dated Not Applicable  
Total No. of Samples Received 92 Total No. of Containers Received 103

### Preservation

	Yes	No	N/A
Metals (pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cyanides (pH>12)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sulfide (pH>9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOC, COD, Phenols (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved) (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do VOA vials have zero headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling.

Samples Inspected/Checklist Completed By: (b) (4)

Date:

5/27/10

PM Review and Approval:

Date:

5/28/10

Printed: 05/27/2010 06:52 PM